
Python

May 22, 2020

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Tuber is an event management system. It helps keep track of your event staff, their jobs and shifts, departments, and attendees.

1.1 tuber

The base module for Tuber

```
tuber.migrate()
```

1.2 tuber.static

```
tuber.static.default(e)
```

```
tuber.static.files(path)
```

```
tuber.static.home()
```

1.3 tuber.permissions

```
exception tuber.permissions.PermissionDenied(message,      status_code=None,      pay-  
                                              load=None)
```

```
    status_code = 403
```

```
    to_dict()
```

```
tuber.permissions.check_permission(permission=None, event=0, department=0)
```

```
tuber.permissions.get_user()
```

```
tuber.permissions.handle_permission_denied(error)
```


2.1 Endpoints

2.1.1 Hotels

GET /api/hotels

Retrieve a list of hotels.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" https://tuber.magfest.org/api/hotels
```

Example Response

```
[{
  "id": 1,
  "name": "The Gaylord",
  "description": "An awesome venue in Maryland!"
}]
```

Query Parameters

- **full** (*string*) – If true returns a list of objects. If false, returns a list of id numbers.

2.1.2 Shifts

GET /api/events/<id>/jobs/available

Retrieve the list of shifts that are available to either the current user or a specific badge.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" https://tuber.magfest.org/api/events/<id>/jobs/
↪available
```

Example Response

```
[
  {
    "job": {
      "id": 1,
      "name": "Do the thing",
      "description": "",
      "department": null,
      "documentation": "",
      "method": {},
      "signurules": {},
      "sticky": false,
      "schedules": [],
      "scheduleevents": [],
      "roles": [],
      "shifts": [1]
    },
    "shifts": [
      {
        "blocks": [
          "Shift is full."
        ],
        "id": 1,
        "job": 1,
        "schedule": null,
        "schedule_event": null,
        "starttime": "2020-05-22T21:15:52.159726",
        "duration": 3600.0,
        "slots": 4,
        "filledslots": 0,
        "weighting": 1.0
      }
    ]
  }
]
```

Query Parameters

- **badge** (*string*) – If provided then the result will be the shifts available to the given badge.

POST /api/events/<id>/shifts/<id>/signup

Sign up for the given shift. If you want to sign up a different badge then the post body should be an object with key badge set the the desired badge id.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" --header 'Content-Type: application/json' -X_
↪POST --data '{"badge": 4}' https://tuber.magfest.org/api/events/<id>/shifts/<id>
↪/signup
```

Example Response

```
{
  "shift": {
    "id": 1,
    "job": 1,
    "schedule": null,
    "schedule_event": null,
    "starttime": "2020-05-22T21:15:52.159726",
    "duration": 3600.0,
    "slots": 4,
    "filledslots": 0,
    "weighting": 1.0
  },
  "shift_signup": {
    "id": 1,
    "badge": 1,
    "job": 1,
    "shift": 1,
    "schedule": null,
    "scheduleevent": null,
    "starttime": "2020-05-22T21:15:52.159726",
    "duration": 3600.0
  },
  "shift_assignment": {
    "id": 1,
    "badge": 1,
    "shift": 1,
    "signuptime": "2020-05-22T21:15:52.159726"
  }
}
```

POST /api/events/<id>/jobs/<id>/dryrun

This endpoint lets you check what the resulting shifts based on a hypothetical job definition. Calling this endpoint will not commit anything to the database, but will let you see what would have resulted from a PATCH to the corresponding job.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" --header 'Content-Type: application/json' -X_
↪POST --data '{"method": {"name": "copy"}}' https://tuber.magfest.org/api/events/
↪<id>/jobs/<id>/dryrun
```

Example Response

```
[{
  "id": 1,
  "job": 1,
  "schedule": null,
  "schedule_event": null,
  "starttime": "2020-05-22T21:15:52.159726",
  "duration": 3600.0,
  "slots": 4,
  "filledslots": 0,
  "weighting": 1.0
}]
```

Schedule Events

GET /api/scheduleevents

Retrieve a list of scheduleevents.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" https://tuber.magfest.org/api/scheduleevents
```

Example Response

```
[{
  "id": 1,
  "name": "Someone's panel",
  "description": "",
  "starttime": "2020-05-22T21:15:52.159726",
  "duration": 3600.0,
  "schedule": 1
}]
```

Query Parameters

- **full** (*string*) – If true returns a list of objects. If false, returns a list of id numbers.

GET /api/scheduleevents/<id>

Retrieve a single scheduleevent.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" https://tuber.magfest.org/api/scheduleevents/1
```

Example Response

```
{
  "id": 1,
  "name": "Someone's panel",
  "description": "",
  "starttime": "2020-05-22T21:15:52.159726",
  "duration": 3600.0,
  "schedule": 1
}
```

POST /api/scheduleevents

Create a new scheduleevent object.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" -X POST --header "Content-Type: application/json" \
  -d '{"name": "Someone's panel"}' https://tuber.magfest.org/api/
  scheduleevents
```

Example Response

```
{
  "id": 1,
  "name": "Someone's panel",
  "description": "",
  "starttime": "2020-05-22T21:15:52.159726",
  "duration": 3600.0,
  "schedule": 1
}
```

PATCH /api/scheduleevents/<id>

Update a scheduleevent.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" -X PATCH --header "Content-Type: application/
↪json" --data '{"description": "Really Cool"}' https://tuber.magfest.org/api/
↪scheduleevents/<id>
```

Example Response

```
{
  "id": 1,
  "name": "Someone's panel",
  "description": "Really Cool",
  "starttime": "2020-05-22T21:15:52.159726",
  "duration": 3600.0,
  "schedule": 1
}
```

DELETE /api/scheduleevents/<id>

Delete a scheduleevent.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" -X DELETE https://tuber.magfest.org/api/
↪scheduleevents/1
```

Example Response

```
{
  "id": 1,
  "name": "Someone's panel",
  "description": "",
  "starttime": "2020-05-22T21:15:52.159726",
  "duration": 3600.0,
  "schedule": 1
}
```

Jobs**GET /api/events/1/jobs**

Retrieve a list of jobs.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" https://tuber.magfest.org/api/events/1/jobs
```

Example Response

```
[{
  "id": 1,
  "name": "Do the thing",
  "description": "",
  "department": null,
  "documentation": "",
  "method": {},
  "signurules": {},
  "sticky": false,
  "schedules": [],
  "scheduleevents": [],
  "roles": [],
  "shifts": []
}]
```

Query Parameters

- **full** (*string*) – If true returns a list of objects. If false, returns a list of id numbers.

GET /api/events/1/jobs/<id>

Retrieve a single job.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" https://tuber.magfest.org/api/events/1/jobs/1
```

Example Response

```
{
  "id": 1,
  "name": "Do the thing",
  "description": "",
  "department": null,
  "documentation": "",
  "method": {},
  "signurules": {},
  "sticky": false,
  "schedules": [],
  "scheduleevents": [],
  "roles": [],
  "shifts": []
}
```

POST /api/events/1/jobs

Create a new job object.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" -X POST --header "Content-Type: application/json" --data '{"name": "Do the thing"}' https://tuber.magfest.org/api/events/1/jobs
```

Example Response

```
{
  "id": 1,
  "name": "Do the thing",
  "description": "",
  "department": null,
  "documentation": "",
  "method": {},
  "signurules": {},
  "sticky": false,
  "schedules": [],
  "scheduleevents": [],
  "roles": [],
  "shifts": []
}
```

PATCH /api/events/1/jobs/<id>

Update a job.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" -X PATCH --header "Content-Type: application/json" --data '{"description": "Really Cool"}' https://tuber.magfest.org/api/events/1/jobs/<id>
```

Example Response

```
{
  "id": 1,
  "name": "Do the thing",
  "description": "Really Cool",
  "department": null,
  "documentation": "",
  "method": {},
  "signurules": {},
  "sticky": false,
  "schedules": [],
  "scheduleevents": [],
  "roles": [],
  "shifts": []
}
```

DELETE /api/events/1/jobs/<id>

Delete a job.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" -X DELETE https://tuber.magfest.org/api/events/1/jobs/1
```

Example Response

```
{
  "id": 1,
  "name": "Do the thing",
  "description": "",
  "department": null,
  "documentation": "",
  "method": {},
  "signurules": {},
  "sticky": false,
  "schedules": [],
  "scheduleevents": [],
  "roles": [],
  "shifts": []
}
```

Shifts

GET /api/shifts

Retrieve a list of shifts.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" https://tuber.magfest.org/api/shifts
```

Example Response

```
[{
  "id": 1,
  "job": 1,
  "schedule": null,
  "schedule_event": null,
  "starttime": "2020-05-22T21:15:52.159726",
  "duration": 3600.0,
  "slots": 4,
  "filledslots": 0,
  "weighting": 1.0
}]
```

Query Parameters

- **full** (*string*) – If true returns a list of objects. If false, returns a list of id numbers.

GET /api/shifts/<id>

Retrieve a single shift.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" https://tuber.magfest.org/api/shifts/1
```

Example Response


```
{
  "id": 1,
  "job": 1,
  "schedule": null,
  "schedule_event": null,
  "starttime": "2020-05-22T21:15:52.159726",
  "duration": 3600.0,
  "slots": 4,
  "filledslots": 0,
  "weighting": 1.0
}
```

POST /api/shifts

Create a new shift object.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" -X POST --header "Content-Type: application/json" \
  --data '{"job": 1, "schedule": 2, "slots": 4}' https://tuber.magfest.org/api/shifts
```

Example Response

```
{
  "id": 1,
  "job": 1,
  "schedule": 2,
  "schedule_event": null,
  "starttime": "2020-05-22T21:15:52.159726",
  "duration": 3600.0,
  "slots": 4,
  "filledslots": 0,
  "weighting": 1.0
}
```

PATCH /api/shifts/<id>

Update a shift.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" -X PATCH --header "Content-Type: application/json" \
  --data '{"duration": 7200.0}' https://tuber.magfest.org/api/shifts/<id>
```

Example Response

```
{
  "id": 1,
  "job": 1,
  "schedule": 2,
  "schedule_event": null,
  "starttime": "2020-05-22T21:15:52.159726",
  "duration": 7200.0,
  "slots": 4,
  "filledslots": 0,
  "weighting": 1.0
}
```

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```
}
  "weighting": 1.0
}
```

DELETE /api/shifts/<id>

Delete a shift.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" -X DELETE https://tuber.magfest.org/api/shifts/1
```

Example Response

```
{
  "id": 1,
  "job": 1,
  "schedule": 2,
  "schedule_event": null,
  "starttime": "2020-05-22T21:15:52.159726",
  "duration": 7200.0,
  "slots": 4,
  "filledslots": 0,
  "weighting": 1.0
}
```

Shift Assignments**GET /api/shiftassignments**

Retrieve a list of shiftassignments.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" https://tuber.magfest.org/api/shiftassignments
```

Example Response

```
[{
  "id": 1,
  "badge": 1,
  "shift": 1,
  "signuptime": "2020-05-22T21:15:52.159726"
}]
```

Query Parameters

- **full** (*string*) – If true returns a list of objects. If false, returns a list of id numbers.

GET /api/shiftassignments/<id>

Retrieve a single shiftassignment.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" https://tuber.magfest.org/api/shiftassignments/1
```

Example Response

```
{
  "id": 1,
  "badge": 1,
  "shift": 1,
  "signuptime": "2020-05-22T21:15:52.159726"
}
```

POST /api/shiftassignments

Create a new shiftassignment object.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" -X POST --header "Content-Type: application/json" --data '{"badge": 1, "shift": 1}' https://tuber.magfest.org/api/shiftassignments
```

Example Response

```
{
  "id": 1,
  "badge": 1,
  "shift": 1,
  "signuptime": "2020-05-22T21:15:52.159726"
}
```

DELETE /api/shiftassignments/<id>

Delete a shiftassignment.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" -X DELETE https://tuber.magfest.org/api/shiftassignments/1
```

Example Response

```
{
  "id": 1,
  "badge": 1,
  "shift": 1,
  "signuptime": "2020-05-22T21:15:52.159726"
}
```

Shift Signups

GET /api/shiftsignups

Retrieve a list of shiftsignups.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" https://tuber.magfest.org/api/shiftsignups
```

Example Response

```
[{
  "id": 1,
  "badge": 1,
  "job": 1,
  "shift": 1,
  "schedule": null,
  "scheduleevent": null,
  "starttime": "2020-05-22T21:15:52.159726",
  "duration": 3600.0
}]
```

Query Parameters

- **full** (*string*) – If true returns a list of objects. If false, returns a list of id numbers.

GET /api/shiftsignups/<id>

Retrieve a single shiftsignup.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" https://tuber.magfest.org/api/shiftsignups/1
```

Example Response

```
{
  "id": 1,
  "badge": 1,
  "job": 1,
  "shift": 1,
  "schedule": null,
  "scheduleevent": null,
  "starttime": "2020-05-22T21:15:52.159726",
  "duration": 3600.0
}
```

POST /api/shiftsignups

Create a new shiftsignup object.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" -X POST --header "Content-Type: application/json" --data '{"shift": 2}' https://tuber.magfest.org/api/shiftsignups
```

Example Response

```
{
  "id": 1,
  "badge": 1,
  "job": 1,
  "shift": 2,
```

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```
"schedule": null,  
"scheduleevent": null,  
"starttime": "2020-05-22T21:15:52.159726",  
"duration": 3600.0  
}
```

PATCH /api/shiftsignups/<id>

Update a shiftsignup.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" -X PATCH --header "Content-Type: application/  
→json" --data '{"shift": 1}' https://tuber.magfest.org/api/shiftsignups/<id>
```

Example Response

```
{  
  "id": 1,  
  "badge": 1,  
  "job": 1,  
  "shift": 1,  
  "schedule": null,  
  "scheduleevent": null,  
  "starttime": "2020-05-22T21:15:52.159726",  
  "duration": 3600.0  
}
```

DELETE /api/shiftsignups/<id>

Delete a shiftsignup.

Example Request

Bash

```
$ curl -H "X-Auth-Token: <Token>" -X DELETE https://tuber.magfest.org/api/  
→shiftsignups/1
```

Example Response

```
{  
  "id": 1,  
  "badge": 1,  
  "job": 1,  
  "shift": 1,  
  "schedule": null,  
  "scheduleevent": null,  
  "starttime": "2020-05-22T21:15:52.159726",  
  "duration": 3600.0  
}
```

2.2 Resources

2.2.1 Hotels

```
class tuber.api.hotels.HotelLocationSchema(*args, **kwargs)
```

HotelLocation:

Schema for a HotelLocation

```
{
  "address": "",
  "event": 1,
  "id": 1,
  "name": ""
}
```

```
class tuber.api.hotels.HotelRoomBlockSchema(*args, **kwargs)
```

HotelRoomBlock:

Schema for a HotelRoomBlock

```
{
  "description": "",
  "event": 1,
  "id": 1,
  "name": ""
}
```

```
class tuber.api.hotels.HotelRoomNightSchema(*args, **kwargs)
```

HotelRoomNight:

Schema for a HotelRoomNight

```
{
  "event": 1,
  "hidden": false,
  "id": 1,
  "name": "",
  "restricted": false,
  "restriction_type": ""
}
```

```
class tuber.api.hotels.HotelRoomRequestSchema(*args, **kwargs)
```

HotelRoomRequest:

The requested preferences for a staff hotel room.

Parameters

- **badge** (*int.*) – The id of the badge that created this request
- **declined** (*bool.*) – True if the user has declined a hotel room

```
{
  "badge": 1,
  "declined": false,
  "id": 1,
  "noise_level": "",
  "notes": "",
}
```

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```

"prefer_department": false,
"prefer_single_gender": false,
"room_night_justification": "",
"sleep_time": "",
"smoke_sensitive": false
}

```

```
class tuber.api.hotels.HotelRoomSchema(*args, **kwargs)
```

HotelRoom:

Schema for a HotelRoom

```

{
  "completed": false,
  "hotel_block": 1,
  "hotel_location": 1,
  "id": 1,
  "messages": "",
  "name": "",
  "notes": ""
}

```

2.2.2 Emails

```
class tuber.api.emails.EmailReceiptSchemaRead(*args, **kwargs)
```

EmailReceipt:

Schema for a EmailReceipt

```

{
  "body": "",
  "email": 1,
  "from_address": "",
  "id": 1,
  "source": 1,
  "subject": "",
  "timestamp": "2020-05-22T23:20:07.574831",
  "to_address": ""
}

```

```
class tuber.api.emails.EmailSchemaRead(*args, **kwargs)
```

Email:

Schema for a Email

```

{
  "active": false,
  "body": "",
  "code": "",
  "description": "",
  "event": 1,
  "id": 1,
  "name": "",
  "send_once": false,
  "source": 1,

```

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```
"subject": ""  
}
```

```
class tuber.api.emails.EmailSchemaWrite(*args, **kwargs)
```

Email:

Schema for a Email

```
{  
  "active": false,  
  "body": "",  
  "code": "",  
  "description": "",  
  "event": 1,  
  "id": 1,  
  "name": "",  
  "send_once": false,  
  "source": 1,  
  "subject": ""  
}
```

```
class tuber.api.emails.EmailSourceSchemaRead(*args, **kwargs)
```

EmailSource:

Schema for a EmailSource

```
{  
  "active": false,  
  "address": "",  
  "description": "",  
  "event": 1,  
  "id": 1,  
  "name": "",  
  "region": "",  
  "ses_access_key": "",  
  "ses_secret_key": ""  
}
```

```
class tuber.api.emails.EmailSourceSchemaWrite(*args, **kwargs)
```

EmailSource:

Schema for a EmailSource

```
{  
  "active": false,  
  "address": "",  
  "description": "",  
  "event": 1,  
  "id": 1,  
  "name": "",  
  "region": "",  
  "ses_access_key": "",  
  "ses_secret_key": ""  
}
```


2.2.3 Badges

```
class tuber.api.badges.BadgeSchema(*args, **kwargs)
```

Badge:

Schema for a Badge

```
{
  "badge_type": 1,
  "email": "",
  "event": 1,
  "first_name": "",
  "id": 1,
  "last_name": "",
  "legal_name": "",
  "legal_name_matches": false,
  "printed_name": "",
  "printed_number": "",
  "search_name": "",
  "uber_id": "",
  "user": 1
}
```

```
class tuber.api.badges.BadgeTypeSchema(*args, **kwargs)
```

BadgeType:

Schema for a BadgeType

```
{
  "description": "",
  "id": 1,
  "name": ""
}
```

```
class tuber.api.badges.DepartmentSchema(*args, **kwargs)
```

Department:

Schema for a Department

```
{
  "description": "",
  "id": 1,
  "name": "",
  "uber_id": ""
}
```

```
class tuber.api.badges.RibbonTypeSchema(*args, **kwargs)
```

RibbonType:

Schema for a RibbonType

```
{
  "description": "",
  "id": 1,
  "name": ""
}
```

2.2.4 Events

```
class tuber.api.events.EventSchema(*args, **kwargs)
```

Event:

Schema for a Event

```
{
  "description": "",
  "id": 1,
  "name": ""
}
```

2.2.5 Users

```
class tuber.api.users.GrantSchema(*args, **kwargs)
```

Grant:

Schema for a Grant

```
{
  "department": 1,
  "id": 1,
  "role": 1,
  "user": 1
}
```

```
class tuber.api.users.PermissionSchema(*args, **kwargs)
```

Permission:

Schema for a Permission

```
{
  "id": 1,
  "operation": "",
  "role": 1
}
```

```
class tuber.api.users.RoleSchema(*args, **kwargs)
```

Role:

Schema for a Role

```
{
  "description": "",
  "event": 1,
  "id": 1,
  "name": ""
}
```

```
class tuber.api.users.UserSchema(*args, **kwargs)
```

User:

Schema for a User

```
{
  "active": false,
```

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```

"email": "",
"id": 1,
"username": ""
}

```

```
class tuber.api.users.UserWriteSchema(*args, **kwargs)
```

User:

Schema for a User

```

{
  "active": false,
  "email": "",
  "id": 1,
  "username": ""
}

```

2.2.6 shifts

```
class tuber.api.shifts.JobSchema(*args, **kwargs)
```

Job:

A Job describes something we might ask a volunteer to do. It holds the actual job description for the human as well as scheduling rules for the system to create Shifts. All Shifts are linked to a Job.

```

{
  "department": 1,
  "description": "",
  "documentation": "",
  "id": 1,
  "method": null,
  "name": "",
  "signurules": null,
  "sticky": false
}

```

```
class tuber.api.shifts.ScheduleEventSchema(*args, **kwargs)
```

ScheduleEvent:

A ScheduleEvent is used to store when something will happen during an Event.

```

{
  "description": "",
  "duration": null,
  "id": 1,
  "name": "",
  "schedule": 1,
  "starttime": "2020-05-22T23:20:07.576663"
}

```

```
class tuber.api.shifts.ScheduleSchema(*args, **kwargs)
```

Schedule:

A Schedule is used to store ScheduleEvents that are used for shift creation and the public event schedule.

```
{
  "description": "",
  "id": 1,
  "name": "",
  "tags": null
}
```

class tuber.api.shifts.**ShiftAssignmentSchema** (*args, **kwargs)

ShiftAssignment:

A ShiftAssignment connect badges to shifts that they will work. They store the current state, and may be blown away when jobs or schedules are changed without direct user intervention.

```
{
  "badge": 1,
  "id": 1,
  "shift": 1
}
```

class tuber.api.shifts.**ShiftSchema** (*args, **kwargs)

Shift:

A Shift is a block of time that a staffer can sign up to work. All Shifts are linked to a Job.

```
{
  "duration": null,
  "filledslots": 1,
  "id": 1,
  "job": 1,
  "schedule": 1,
  "schedule_event": 1,
  "slots": 1,
  "starttime": "2020-05-22T23:20:07.577305",
  "weighting": null
}
```

class tuber.api.shifts.**ShiftSignupSchema** (*args, **kwargs)

ShiftSignup:

A ShiftSignup tracks the intent of a user to signup for a shift. This is different than a ShiftAssignment. A ShiftSignup persists even if the underlying shift is removed, so that the user's desires are still known if a new, similar shift is created. Thus it must hold a copy of the associated shift so that it can be compared to potential replacement shifts.

```
{
  "badge": 1,
  "duration": null,
  "id": 1,
  "job": 1,
  "schedule": 1,
  "shift": 1,
  "starttime": "2020-05-22T23:20:07.577910"
}
```

tuber.api.shifts.**reschedule_job** (job, schedule_event=None)

Regenerates the shifts associated with this job. If a schedule_event is passed then it will only regenerate overlapping shifts.

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    ??
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