

# SHASHANK AITAL

Junior, Indian Institute of Technology Roorkee

@ aitalshashank2@gmail.com

@ shashank\_p@cs.iitr.ac.in

+91-7720970234

aitalshashank2

in aitalshashank2

## AREAS OF INTEREST

Web Development, Cloud Computing, Deep Learning, Devops

## EDUCATION

### Indian Institute of Technology, Roorkee

July 2019 – Present

- B. Tech. in Computer Science and Engineering
- CGPA : 9.452/10

### Nav Krishna Valley Junior College

June 2017 - March 2019

- Sr. Secondary Education, Maharashtra State Board
- Class XII Percentage : 94.3

## SOCIETIES & MEMBERSHIPS

### Project Leader at Information Management Group, IIT Roorkee

January 2020 - Present

- IMG is a group of students that constantly strive to lead in the innovation, development and maintenance of advanced information technologies including computer systems, software, and database systems.
- Responsible for maintaining the technological infrastructure of intranet and internet applications in IITR.

### Core Member at Vision and Language Group, IIT Roorkee

January 2021 - Present

- Core Member at VLG, a student group that promotes Deep Learning research culture at IITR by discussing relevant research papers, organizing workshops and working on related projects. [Link]
- Moderated a discussion on the basics of Linear Algebra in April 2021. [Presentation]
- Moderated the first day of the two-day workshop and made a presentation with a jupyter notebook using PyTorch. [Colab Notebook]

## SKILLS

- Programming Languages:** Python, C++, JAVA, JavaScript
- Packages and Environments:** Django, Django Rest Framework, Django Channels, ReactJS, Redux, Docker, docker-compose, Nginx, Material UI, Semantic UI, PyTorch, MySQL, PostgreSQL
- Additional Courses:** Deep Learning Specialization (Coursera) by deeplearning.ai

## ACHIEVEMENTS

- All India Rank - 411**, JEE Advanced, administered by Indian Institutes of Technology
- All India Rank - 155**, JEE Main, taken by more than a million students
- Division Rank - 2**, Higher Secondary Board Exams, organized by Maharashtra State Board

## TECHNICAL PROJECTS

### Floo - Microsoft Engage 2021

June 2021 - July 2021

- Floo is a platform for efficient communication in an organization. Some of the features include creating meetings, recording screens, creating teams, a global forum and collaboration in real-time via WebRTC.
- Tech Stack: Django, Django Rest Framework, Django Channels, Redis, Docker, docker-compose, PostgreSQL, Unicorn, Daphne, supervisor, Nginx, ReactJS, Redux, Material UI
- Codebase: [GitHub]

### Content Management System

September 2020 - Present

- CMS is a multi-user interface for managing, updating, publishing digital content on IITR's official website.
- Helps managing 6000+ static pages on the IITR website.
- Active maintainer of CMS, key contributor to the new design system of the IITR website.
- Tech Stack includes Yii2.0, Docker, RabbitMQ, Apache2.

### The Meeting Sphinx - Course Project (CSN-254)

April 2021 - May 2021

- The Meeting Sphinx is a cross-platform application that detects if the attendees in a meeting start recording their screens. This is useful for those professionals who wish to keep their content safe.
- Implemented models, serializers and views. Dockerised the app for development and production. Set up CI.
- Tech stack: Docker, Unicorn, Daphne, Nginx, supervisor, Django, DRF, Django Channels, PostgreSQL, Redis.
- Codebase: [GitHub], Docker Image: [dockerhub]

### Heimdall

October 2020 - November 2020

- Heimdall is a GitHub based server login manager which eases the process of granting access to servers and tracking server login activity in an organization.
- Implemented Heimdall Master and Heimdall Serverside. Also implemented GitHub Webhooks, integrated slack and location functionalities.
- Tech Stack includes Docker, Nginx, Supervisor, Django, DRF, Flask, Python, PostgreSQL.
- Codebase: [GitHub]

## REFERENCES

### Dr. Sugata Gangopadhyay

Professor

Indian Institute of Technology, Roorkee

sugata.gangopadhyay@cs.iitr.ac.in

### Dr. Balasubramanian Raman

Professor

Indian Institute of Technology, Roorkee

bala@cs.iitr.ac.in