Shashank **Aital**

THIRD YEAR UNDERGRADUATE | COMPUTER SCIENCE AND ENGINEERING

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Sum**mary**

An inquisitive computer scientist (in the making), exploring the world of computer science and engineering. Fascinated by concepts of software development, especially DevOps and intrigued by the mysteries of Deep Learning. Constantly experimenting with new concepts and working with new tools everyday while trying to make and discover something in Computer Science.

Edu**cation**

Indian Institute of Technology, Roorkee   *Roorkee, India*

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING   *2019 - Exp. 2023*

- CGPA: 9.485/10

Nav Krishna Valley Junior College, Kupwad   *Sangli, India*

GRADE 12 (SENIOR SECONDARY LEVEL)   *2019*

- Percentage: 94.63%

St. Alphonsa School, Miraj   *Miraj, India*

GRADE 10 (SECONDARY LEVEL)   *2017*

- Percentage: 97.4%

Pro**jects**

Content Management System   *Roorkee, India*

PART OF THE TEAM THAT MANAGES CMS AT IMG, IIT ROORKEE   *September, 2020 - PRESENT*

- CMS is a multi-user interface for managing, updating and publishing digital content on IITR's official website.
- Active member of this project, key contributor to the new design system of IITR's official website and an active maintainer of these projects.
- Tech Stack includes Yii2.0, JavaScript, RabbitMQ, Apache2.
- Visit **https://www.iitr.ac.in**.

The Meeting Sphinx   *Roorkee, India*

PROJECT FOR THE COURSE CSN-254(SOFTWARE ENGINEERING) AT IIT ROORKEE   *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, views and consumers. Dockerised the app for development and production. Set up CI.
- Tech stack (Back-end): Docker, Gunicorn, Daphne, Nginx, supervisord, Django, DRF, Django Channels, PostgreSQL, Redis.
- Code-base can be found on **[GitHub]** and docker image can be found on **[dockerhub]**.

Heimdall   *Roorkee, India*

INDIVIDUAL PROJECT AT IMG, IIT ROORKEE   *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, Supervisord, Django, DRF, Flask, Python, PostgreSQL.
- Code-base can be found on **[GitHub]**.

ArxivApp   *Roorkee, India*

PROJECT FOR THE COURSE CSN-291(OBJECT ORIENTED ANALYSIS AND DESIGN) AT IIT ROORKEE   *October, 2020 - November, 2020*

- ArxivWeb gives a personalised experience to users while accessing research papers from arXiv. It allows the users to bookmark papers, rate them, comment on them and also, write blogs on them.
- Implemented the frontend and backend for the functionality for blogs for the project and dockerised the complete project.
- Tech stack includes Docker, Django REST, Django, Python, PostgreSQL, SemanticUI, ReactJS, JavaScript
- Code-base can be found on **[GitHub]**.

Chronicles   *Roorkee, India*

INDIVIDUAL PROJECT AT IMG, IIT ROORKEE   *April, 2020 - June, 2020*

- Chronicles facilitates the process of testing a software for an organization. Testers can report bugs, assign it to another user and users can comment in real time.
- Implemented the frontend and the backend for the project. Implemented websockets, e-mail functionality and dockerised the whole project.
- Tech Stack includes Docker, Django Channels, Django REST, Django, Python, MySQL, SemanticUI, ReactJS, JavaScript
- Code-base can be found on **[GitHub]**.

Honours & Achievements

2019   **All India Rank - 411**, JEE Advanced, administered by Indian Institutes of Technology
2019   **All India Rank - 155**, JEE Main, taken by more than a million students.
2019   **Division Rank 2**, Higher Secondary Board Exams, organized by Maharashtra State Board

Skills

Programming Languages	Python, C++, Java, JavaScript
Software packages and Utilities	Django, Django Rest Framework, Django Channels, ReactJS, Redux, Docker, docker-compose, MySQL, PostgreSQL, NGINX, Material UI, Semantic UI, Git, Linux Shell, Vim
Relevant Courses (online)	Deep Learning Specialization (Coursera) by deeplearning.ai, Quantum Global Summer School (IBM)
Relevant Courses (offline)	Mathematics-I (Linear Algebra and Calculus), Optimisation Techniques, Discrete Structures, Design and Analysis of Algorithms

Extracurricular Activity

Information Management Group   *Roorkee, India*
PROJECT ASSOCIATE   *January, 2020 - PRESENT*

- Working with a team of around 50 tech enthusiasts to develop software solutions for the college campus community. **[Link]**
- Maintain the IIT Roorkee official website with up-to-date technology stack.

Vision and Language Group, IIT Roorkee   *Roorkee, India*
CORE MEMBER   *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]**

CovEd India   *India*
CORE MEMBER   *April, 2020 - June, 2020*

- A national initiative by college students from all streams to mentor high school students free of cost, benefiting over 500 students.
- Developed the website for Coved India. **[Link]**