

# Avi Kumar Singh

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## EDUCATION

### NIT, TRICHY - B.TECH

MAJOR IN COMPUTER SCIENCE

MINOR IN ECONOMICS

Expected May 2022 | Trichy, India

Cum. GPA: 8.39/10.00

### DEVI ACADEMY SENIOR SECONDARY SCHOOL

GRAD. APRIL 2016 | CHENNAI

CBSE : CGPA - 10.0/10.0

GRAD. APRIL 2018 | CHENNAI

CBSE : 93.6 %

## LINKS

GitHub: [@avikumar15](https://github.com/avikumar15)

LinkedIn: [@avi-kumar-singh-1508](https://www.linkedin.com/in/avi-kumar-singh-1508)

Codeforces: [@avikumar15](https://codeforces.com/profile/avikumar15)

HackerRank: [@avikumar15](https://www.hackerrank.com/avikumar15)

## COURSEWORK

Data Structure & Algorithms

Database Management System

Machine Learning

Artificial Intelligence

Operating System

Formal Languages and Automata

Combinatorics Graph Theory

## SKILLS

### PROGRAMMING LANGUAGES

• C • C++ • Java • Kotlin • Python

### FAMILIAR LANGUAGES

• JavaScript

### TOOLS/Frameworks

• CircleCI • Docker • Firebase • Git

• Helidon MP • JUnit Tests • React

• Scrapping • Spring Boot

### Misc

• Android Jetpack • Coroutines

• Game Dev • gRPC • ML • Mobile Dev

• MVVM • Scripts • Web Dev

## CO-CURRICULAR

• [Volunteering Exchange](#) to Hanoi

• **Team Leader** Business Development at AIESEC in NITT

• **Online mentor** of maths for underprivileged students.

• Coordinated **Inter-NIT Sports** meet

## EXPERIENCE

### ORACLE | APPLICATION DEVELOPMENT INTERN

June 2021 – July 2021 | Work From Home

- Developed a utility tool from **scratch** using **Helidon MP Framework**. This tool **prevents failure scenarios** in provisioning of pods by tracking resources' availability status from **Oracle Cloud Infrastructure** using **OCI-CLI**.
- Wrote a cron job script using **Python** which is connected to a **slack bot**. This script acts as an **alerting mechanism** (in case of shortage of capacity) for admin.
- Created a responsive **react application** for admin to overview current OCI capacity.

### VORTEX | WEBOPS | EVENT COORDINATOR

Jan 2020 – Present | NIT Trichy, India

- Coordinated Events of Vortex'20 & Vortex'21, the **Annual National level technical symposium** of CSE department, NIT Trichy. Developed the Vortex'21 **android app**.

### DAILYOBJECTS | APPLICATION DEVELOPMENT INTERN

December 2019 – January 2020 | New Delhi, India

- Revamped the UI/UX of the **android app** at DailyObjects using **jetpack libraries**. Changes impacted **100,000+** app user. ([app-link](#))
- Followed a **test driven** approach to development.

### DELTA FORCE | SOFTWARE DEVELOPER

July 2019 – Present | NIT Trichy, India

- Official coding club and **web-team** of NIT Trichy.
- Developed multiple **android and web-apps** for college fests. ( [Pragyan '20](#), [Aaveg '20](#), [NITTFEST '20](#), [Festember '19](#)) Festember'19 has **5000+** downloads.
- Mentored a project for **Delta Winter of Code 2019-20**. ([project link](#))
- Organised **algos bootcamp** and mentored freshers (**App and Game dev**)

## TECHNICAL PROJECTS

### YAYS CHATBOT | ANDROID | FLASK | ML | GITHUB - [Server & App](#)

Mar 2021

- Developed a complete mental health chatbot tool by utilising a **Feed-Forward Neural Network** for the model, and **Flask** framework for backend.
- Created an **android app** to communicate with model.

### QUICK MAIL CLI | PYTHON | CLI | GITHUB - [quick-mail-cli](#) | [PyPI](#)

Dec 2020 – Mar 2021

- Developed a **command-line interface** to send mail quickly and without any hassle.
- Utilised **argparse** and **google client library**. Followed the concept of abstraction using **zope**.

### DALAL STREET | ANDROID KOTLIN | GRPC | GO | [Web Link](#)

Sep 2019 - Mar 2020

- Developed a **virtual stock exchange game** with backend in **Go** and **GRPC** for managing communication between backend and frontend. ([server code](#))
- Contributed to frontend in app and web. ([app code](#)) ([web code](#))
- App is wholly written in **Kotlin** and uses **MVVM** architecture.
- Implemented **push notification**, **OTP** and **referral code** features in app.

## AWARDS

2020 Top 7 teams/ 50 teams

2020 Top 250 teams/ 2500 teams

2018 Top 8 teams/ 200 teams

Transfinite'20 hackathon organised by NITT

Hackverse'20 hackathon organised by NITK

Qualified for NumPy second round