Avi Kumar Singh

avikumar15.github.io | avikumar.singh1508@gmail.com

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

CBSF: 93.6 %

LINKS

GitHub: @avikumar15

LinkedIn: @avi-kumar-singh-1508

Codeforces: @avikumar15 HackerRank: @avikumar15

COURSEWORK

Data Structure & Algorithms Database Management System Operating System Machine Learning 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.

FEST ANDROID | EVENT MANAGEMENT APP | ANDROID APP | KOTLIN April 2020 - July 2020

- Developed app for national level fests of NIT Trichy with MVVM architecture and Kotlin Coroutines.
- Utilised Kotlin DSL for dependency management and used jetpack components like View Binding, and Navigation Component.
- Wrote unit tests using **JUnit** and automated the testing process by intergrating CircleCI with Firebase Test Lab.

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 code in android app. (app code) (web code)
- App is wholly written in **Kotlin** and uses **MVVM** architecture.
- Implemented **push notification**, **OTP** and **referral code** features in app.