

Avi Kumar Singh

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EDUCATION

NIT, TRICHY - B.TECH

MAJOR IN COMPUTER SCIENCE

MINOR IN ECONOMICS

Grad. May 2022 | Trichy, India

Cum. GPA: 8.43/10.00

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

LinkedIn: @avi-kumar-singh-1508

Codeforces: @avikumar15

HackerRank: @avikumar15

COURSEWORK

Data Structure & Algorithms

Database Management System

Operating System

Basics of Machine Learning

Mobile Development

SKILLS

PROGRAMMING LANGUAGES

• C++ • Java • Python • SQL • HTML
• JavaScript • TypeScript

TOOLS/Frameworks

• Docker • Django • Firebase • Flask
• Git • Helidon MP • JUnit • React JS
• Scrapper • Spring Boot • Unity • CSS

Misc

• Agile • Android Jetpack • CircleCI
• Linux • ML • Mobile Dev • Tableau
• MVVM-Android • Scripting • Rest API
• Scrum • Web Dev

CO-CURRICULAR

- Class representative
- Mentoring college freshers for internships and placements in tech
- **Online mentor** of maths for underprivileged students.
- Developed mobile app - **Vortex '21**
- Organised algos bootcamp and mentorship for app dev and game dev

EXPERIENCE

AMAZON | SOFTWARE DEVELOPMENT ENGINEER | ALEXA AI

August 2022 – Feb 2023 | London, UK

- Working with the **Alexa Linked Data** team which enables customers to access knowledge to build Alexa skills.
- Developed capability to answer F1 and Fifa queries (avg **3000 qna queries** daily)
- Migrated dependency service using **shadow mode approach**
- Handled oncall and led investigations for critical issues using **AWS CloudWatch**.
- Tech stack: Java - JAX-RS, AWS (**course certificate**), React, TypeScript

ORACLE | APPLICATION DEVELOPMENT INTERN

June 2021 – July 2021 | Bangalore, India

- 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.
- Received Pre-Placement Offer
- Tech stack: Java - Helidon MP, OCI, Python, React (**intern certificate**)

DAILYOBJECTS | APPLICATION DEVELOPMENT INTERN | ANDROID DEV

December 2019 – January 2020 | New Delhi, India

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

OTHER

DELTA FORCE | STUDENT SOFTWARE DEVELOPER | Web Team NIT TRICHY

July 2019 – May 2022 | NIT Trichy, India

- 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**)

AIIESEC, NIT TRICHY | TL, BUSINESS DEVELOPMENT | VOLUNTEER

Jan 2019 – Jun 2020 | NIT Trichy, India

- Led the business development team of AIIESEC, NIT Trichy chapter.
- Volunteered at Hanoi, Vietnam through an exchange program (**certificate**)

PROJECTS

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**.

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**. The app has 5000+ installs on Play Store. (**link**)
- Constructed an interactive splash screen using canvas and animations.
- Used jetpack components like **View Binding**, and **Navigation Component** and **JUnit** testing framework and automated the using **CircleCI** and **Firebase Test Lab**.