

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: 8.18/10.0

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

Formal Languages and Automata

Combinatorics Graph Theory

Computer Organization

SKILLS

PROGRAMMING

Languages

C • C++ • Java • Kotlin • Python

Familiar

JavaScript • Go • C#

Tools

Git • CircleCI • Android Studio •

Unity3D Engine • Firebase Services

Misc

gRPC • MVVM Design • Unit Testing

CO CURRICULAR

- **Volunteering Exchange** to Hanoi
- Part of Vortex Events team (annual symposium of CSE department)
- An **online mentor** of maths for underprivileged students.
- **Team Leader** of Business Development at AIESEC in NIT Trichy

EXPERIENCE

DAILYOBJECTS | APPLICATION DEVELOPMENT INTERNSHIP

December 2019 – January 2020 | New Delhi, India

- Revamped the UI/UX of the **android app** at DailyObjects. Changes impacted 100,000+ app user. ([app-link](#))
- **Test** driven development.
- Simplified the app codebase by using **jetpack libraries**.

DELTA FORCE | SOFTWARE DEVELOPER

July 2019 – Present | NIT Trichy, India

- Official Coding Club of NIT Trichy. (**Delta Force**)
- Part of the college's **web-team**
- Developed college's fest **android apps** like, **Pragyan '20, Aaveg '20, NITTFEST '20, Festember '19**. Festember'19 has 5000+ downloads.
- Worked on the frontend (**Vanilla JS**) of crossword web-app.
- Mentored a project for Delta Winter of Code 2019-20. ([project link](#))
- Organised algos bootcamp and mentored freshers (App and Game dev)

VORTEX | WebOps | EVENT COORDINATOR

Jan 2020 – Present | NIT Trichy, India

- Coordinated Events of Vortex'20, the Annual National level technical symposium of CSE department, NIT Trichy.
- Part of the **web operations** team for Vortex'21.

TECHNICAL PROJECTS

QUICK EMAIL CLI | PYTHON | CLI | GITHUB - quick-email-cli

Dec 2020 – Jan 2021

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

DALAL STREET | VIRTUAL STOCK EXCHANGE GAME | Web Link

September 2019 - March 2020

- Saw participation of 600+ players.
- The game has it's backend in **Go** and **GRPC** is used to manage communication between backend and frontend. ([server code](#))
- The frontend is implemented in both app and web. ([app code](#)) ([web code](#))
- Implemented push notification and OTP verification features in app.

AUTOMATE | E-RICKSHAW TRACKING APP | ANDROID APP | SPRING BOOT

February 2020

- A pooling based cab booking application using **Google Map API**.
- A **dijkstra based algorithm** is used which assigns rickshaw to the passenger. Factors like auto capacity, ETA, destination are considered in this algorithm.

AWARDS

2020	Top 250 teams out of 2500+ teams	Hackverse'20 organised by NITK
2020	Top 7 teams/ 50 teams	Transfinitte'20 organised by NITT
2018	Top 8 teams/ 200 teams only	Qualified for NumPy second round
	second team from first year	