Aatish Malik

+91-9996908470 | aatish.malik.ug21@nsut.ac.in | LinkedIn | GitHub | Leetcode

EDUCATION

Netaji Subhas University of Technology, Delhi — 2021-2025
Bachelor of Technology in Computer Science, Data Science — ***8.22 CGPA***
Swami Nitanand Public School — 2019-2020
Class XII (CBSE) — ***80 %***
The Sanskriti School — 2018-2019
Class X (CBSE) — ***96 %***

WORK EXPERIENCE

Software Engineer Intern | **Watsoo Express** — May 2024 – Present
Gurgaon, India
- Developed driver software in C for a 6-axis MEMS sensor on proprietary STM-based device, establishing communication via SPI.
- Enhanced data precision in edge cases by **60%** through the implementation of Kalman Filter algorithm for sensor fusion.
- Engineered a TCP data transmission pipeline using an onboard Quectel Modem, designing server-side parsers in Java to interpret data according to **AIS 140** compliance.

Developer Intern | **NewsViews** — Sep 2023 – Oct 2023
Remote, India
- Designed efficient database schemas and integrated Login screen and user authentication.
- Programmed the main user interaction components of homescreen with challenging UI and physics based animations using base Flutter animation and rendering classes.

PROJECTS

NSUTx — Mar 2023 – Present
Playstore | *Appstore* — *Flutter, Firebase, Dart*
- Led a **20** members team to develop cross platform app creating a University Management System interface of NSUT.
- Ensured successful launch of the application with contributions in key features such as automatic login from cookies, site parsers and reducing loading time by 30% and continued bug fixes and maintainance.
- Secured over **10K+** downloads on playstore with over **4k** active user base.

Beyond Voice Commands — Nov 2023 – Apr 2024
Paper — *Python, ADB, OpenAI, Hugging Face*
- A comprehensive audio-visual model for mobile device operation and quantitative evaluation benchmark.
- Developed a mobile agent with capabilities surpassing conventional voice command assistants, by mimicking human like thought process it completed complex tasks with 70% completion rate over exisiting methods.
- Used state of art technologies in LLM and successfully submitted a research paper under the guidance of *Prof. Gaurav Singhal*.

TECHNICAL SKILLS

Programming Languages: C/C++, Dart, HTML, CSS, JS, SQL, Bash, Python
Technologies: Firestore, Firebase, APIs(OpenAI, Gmap, Razorpay), Flutter, ROS(Robot Operating Software), Linux, OpenCV, Pytorch
CS Fundamentals: Knowledgeable in Database Management Systems(DBMS), Object-Oriented Programming(OOPS), Software Development, Computer Architecture, Operating Systems, Data Structures, and Algorithms

POSITION OF RESPONSIBILITY

Mentor, International Developers Community (Devcomm), NSUT
Event Management Head , Avinya 2024 (Biggest TechFest of NSUT)
Department Head (App Development) , International Developers Community (Devcomm), NSUT
Teaching Assistant, Prof. Vicky Suri (Jan'22-May'22)
Software department, ARES Robotics NSUT

ACADEMIC ACHIEVEMENTS & INTERESTS

Rank 2245 in JEE, Rank 1 in Branch CSDS in 3rd and 6th semester, 500+ DSA problems, Open source, Philosophy