Nilesh Sharma

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Education

Indian Institute Of Technology Design And Manufacturing Kurnool	**2022 - Present**
B.Tech in Computer Science & Engineering	*7.97/10 CGPA*

Work Experience

AlgoUniversity (backed by Y-Combinator)	**May 2024 – July 2024**
Software Development Extern	*Remote*

- Worked on an Online Judge platform which verifies the users' code against various test cases and gives a verdict.
- This is a full stack advance level project.
- **MERN** stack used: **React.js** for UI, **Node.js/Express.js** for backend, **MongoDB** for storage.
- This project will also be deployed on AWS and Docker will be used for containerization. People can then use this website in real-time.
- Got mentorship of senior engineers from **Google London, Apple, Bytedance Singapore** and **Alphagrep Singapore**, I learned real word software development and learned about scalability.

Projects

Android Application Project: CampusConnect   **Demo**

- The CampusConnect app aimed to streamline campus communication and resource access for students. It featured event notifications, academic updates, forums, and resource sharing and **WIFI+QR** based attendance system.
- Implemented an attendance feature in the app that reduced paperwork by **75%** and improved teacher efficiency by saving **10-15 minutes** per class on attendance.
- Orchestrated the creation of a chat application for the student body, elevating communication channels and contributing to boost user engagement rates, proving essential for ongoing student engagement.
- Implemented the firebase cloud storage for efficient management of data.
- Uniform platform for sharing of **Notes Images, PDF files, PPT and DOC files.**
- Engineered a robust message broadcasting service using Firebase Cloud Messaging; enabled real-time communication for over 500 users, resulting in a 40% increase in engagement metrics and improved response times by 25%.
- Tested among more than **500 Students**.

Android Application Project: Image Classifier (ML app)   **Source Code**

- The Image Classifier ML App utilizes deep learning algorithms to classify images into 100+ predefined categories.
- Users can upload any resolution of images for classification via the app's interface.

Technical Skills

Languages: Python, C, C++, JavaScript, Kotlin, Dart
Backend: Next.js, Node.js, Express.js
Frontend: React, TailwindCSS, HTML, CSS, Bootstrap, XML
Clouds & Databases: AWS, PostgreSQL, MongoDB, Firebase
Other: Docker, Socket.IO, Redis, Machine Learning, Android SDK, SQLite, JSON
Developer Tools: Postman, VS Code, GitHub, Xcode, Android Studio, Git, Version Control, Flutter

Honours and Awards

Accelerator Programming Camp	**May 2024 – July 2024**
Batch of 2024	*AlgoUniversity (backed by Y-Combinator)*

- Got selected being in top **1.4% out of 40,000** students who applied, got mentorship under the seniors engineers of Apple, Google, Grab Singapore and Alphagrep Singapore.
- Learned how to build Scalable systems, deployments and gained industry-level work experience.

Graphs camp by Codeforces Master	**April 2024**

- I have been selected out of **80,000 students from India** as a mentee for graphs camp by Codeforces Master and learned 17+ advanced problem solving techniques in graphs. Solved 3 super hard problems on the topic shortest paths and got featured in the **Hall of Fame.**

Algorithmic Competitions/Achievements

- Secured First position – Google DSC – Google DSC IIITDM KURNOOL- 2024
- Secured Second Position – NextGenEd – Solasta IIITDM KURNOOL- 2024
- 4 Star at CodeChef – codeChef Contest – Codechef(highest Rating 1806)
- Passed Oracle **OCI** Gen AI Test and **Secured Oracle certificate.**
- As a Google DSC Android Core member, motivated and taught over 100 students the basics of Android application development.
- Our team Secured **440** Rank Out of **18000+** team participated in Amazon ML challenge