

Ayush Goyal

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EDUCATION

DELHI TECHNOLOGICAL UNIVERSITY

B.TECH, INFORMATION TECHNOLOGY
2019 - 2023 | New Delhi, India
GPA: 9.12 (till 7th semester)

HHF SCHOOL

2019 | New Delhi, India
Class 12th : 92%

DELHI PUBLIC SCHOOL MATHURA ROAD

New Delhi, India
Class 10th CGPA : 10

LINKS

Portfolio:// ayushgoyal.dev
GitHub:// [ayush6624](https://github.com/ayush6624)
LinkedIn:// [ayush-goyal6624](https://www.linkedin.com/in/ayush-goyal6624)
CodeChef:// [ayush6624](https://www.codechef.com/ayush6624)

COURSEWORK

UNDERGRADUATE

Data Structures And Algorithms
Object Oriented Programming
Database Management System
Operating System

SKILLS

PROGRAMMING

Languages:

C • C++ • Python • JavaScript
• TypeScript • C# • Go • Kotlin

Web Development:

React • NextJS • HTML • CSS
• NodeJS • SQL • Docker

Machine Learning:

Deep Learning • OpenCV
• Tensorflow

Infra:

AWS • Bash • Terraform

POSITIONS

- President at **IOSD DTU**
- Web Core Team Member at **Google Developer Student Club DTU**

EXPERIENCE

NIMBUS (YC W22) | SOFTWARE ENGINEER

July 2022 – Present | San Francisco, CA, US

- Built **Remote Cloud Dev Environments** using **GoLang**, **GraphQL** and **AWS**, which can be fully **self-hosted** and support **elastic** environments.
- Integrated **SSO**, **Audit Logs**, **Terraform Provider** and advanced **infrastructure logging** capabilities.
- Built IDE integrations for VS Code and JetBrains.
- Built **CLI** tool for managing dev infra and templates, provide **remote sync integration**, and support **private networking** with **ACL**.

MICROSOFT | SOFTWARE ENGINEER INTERN

May 2022 – July 2022 | Hyderabad, India

- Integrated the **Policy Enforcement** scenario which will lead to an annual savings opportunity of **\$4.5M** and **improve CSAT** ratings.
- Used **C#** to integrate with the **MVS API** and achieved **>80% code coverage** within the given **SLA**.
- Worked with the **USTR** and **AMC** team to ensure **E2E integration**.

PABIO (YC S21) | JAVASCRIPT ENGINEERING INTERN

Apr 2021 – Apr 2022 | Switzerland

- Built and maintained the **user-facing website** and **internal platform** using **NextJS** and **TypeScript**.
- Created **API** endpoints in **NestJS** and used **Prisma** as an ORM to add new functionalities.
- Created a **monorepo** using **Rush**, integrating all the packages along with **auto-generated types**, **documentation** and **parallel** builds.
- Built **CI pipelines** and helped in **architecting** and **managing services** running on **AWS** and **GCP**.

PROJECTS

MICROSOFT TEAMS CLONE | Code

- **Designed and developed** a fully-featured clone of MS Teams with **agile** methods using **NextJS**, **Prisma**, **Express** and **TypeScript**.
- Supports **video call**, group chat, **OAuth** authentication, **background filters**, toast notifications, detailed **analytics** using **web beacons**.
- Equipped to handle **25+** participants exchanging media via an **SFU** provided by **Twilio**.

DRONE DELIVERY | Code

- Developed a system to devise a **cost-effective route** for a truck and **multiple drones** to transport packages to a **network** of delivery nodes.
- Used **K-Means** to **cluster** delivery nodes and used **TSP** with **heuristics** to identify the truck routes.
- Implemented **ILP** formulation of **multiple salesman problem** to generate drone routes. Used **JavaScript**, **Google Maps API** to illustrate them.
- **Reduced** compute time by **95%** and **increased** route efficiency by **34%**.