

# YASH AGARWAL

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## Skills

**Languages:** Python, Typescript, JavaScript, Java, C++, SQL, HTML/CSS, Solidity

**Developer Tools:** AWS, GCP, Redis, Serverless, Terraform, Docker, Kubernetes, IPFS, Web3Storage, Drand

**Technologies/Frameworks:** LLM, NestJS, NextJS, SpringBoot, FastAPI, Django, React, SkLearn, NLTK, Qiskit

## Work Experience

### Allo Health 🏥

June 2022 – Present

*Founding Engineer*

*Banagalore, Karanataka*

- Building an end to end health care delivery platform. Joined as one of the founding engineers.

- **AI Copilot** – Project owner of Allo Copilot, an omnichannel clinical assistance copilot:
  - \* Created and maintained APIs, interfaces, pipelines and infrastructure for the RAG and ReAct powered copilot.
  - \* Automated triaging, conversational actioning and prioritised escalations reduced **90%** human interventions.
  - \* Reduced response time and multilingual responses improved patient satisfaction and increased bookings by **20%**.
  - \* **Exposure:** AWS, LLM, Python, VectorDB, Fast API, NestJS, NextJS, Langchain, ReAct, RAG.
- **EMR, Payments & Commerce and Teleconsultation Platform** – Core services offered by Allo Health:
  - \* Created and maintained APIs and infrastructure for services including Scheduler, EMR, Payments & Commerce.
  - \* Led the development of teleconsultation platform fully automating the consultation management process. This increased the consultation completion rate by **30%** and allowed scaling the operations **4x** with the same team size.
  - \* Led the implementation of authentication system and key contributor in RBAC based authorization system.
  - \* **Exposure:** AWS, NestJS, NextJS, 100ms, Paperform, SpringBoot, MySQL, Exotel, Retool, Auth0, Gupshup.
- **Infrastructure, Platform and Data:**
  - \* **Event Driven Architecture:** Used Redis streams & groups to enable async processing of events and improving the reliability and observability of the events in the system.
  - \* **Infrastructure as code:** Wrote Terraform, docker and github actions configurations to provision infrastructure and set up CI/CD. Optimized existing CI/CD pipelines to reduce deployment times and costs by **60%**
  - \* **DataOps:** Developed a tool to *fully automate* data extraction pipeline by allowing users to schedule queries which on execution dumped data in google sheets, eliminating **90%** of the manual efforts.
  - \* **Exposure:** AWS, GCP, Python, Redis, Github Actions, Docker, Terraform, Harness, Feature Flag

### MTX Group 🏢

May 2021 – Aug 2021

*Software Engineer Intern*

*Hyderabad, Telangana*

- **Notification Service:** Built a consumer listener architecture based highly available sms notification and chatbot service improving response time by **40%** and engagement by **20%**.
- **Component Library:** Created a sharable library for AngularJS components using StoryBook.
- Awarded PPO for exceptional performance and contribution to the company.
- **Exposure:** *Spring Boot, Kafka, Twilio, MongoDB, NestJS, AngularJS, StoryBook, NPM.*

## Education

### IIT (BHU) Varanasi

July 2018 – May 2022

*Bachelor of Technology (9.16 CGPA)*

*Varanasi, Uttar Pradesh*

## Projects

Timecapsule - A responsible vulnerability discloser | *NestJS, IPFS, Drand, Web3 Storage*

May 2023

- A tool to enable security researchers to time-lock the discovered vulnerabilities and responsibly disclose them later.

Traffic Signal Recognition - Bosch | *NextJS, Flask, Google Firebase*

Mar 2021

- Lead a team of 4 to an ETL tool to enable continuous training, deployment and monitoring of deep learning model.

Dream 11 Team Predictor | *Python, Sklearn, Beautiful Soup*

Sept 2020

- Trained a model to predict the best Dream 11 team for a given match. Accuracy wasn't great but it was fun to build.

## Extracurricular

- *Quantum Explorers, IBM* – Part of 2023 Cohort of Quantum explorers to learn and explore Quantum Computing.
- *Open Source Contributor* – Actively contributed to many open source projects like Meshery, OpenCopilot, Qiskit etc.
- *Gold Medalist Inter-IIT '21* – Product case study to automate payout process of Kaching.
- Led organisations at IIT (BHU) to organise events, workshops and case studies for 200+ students throughout the year.
- Participated in and won various other prestigious case study competitions.
- Interned in Equity Research, Data Science and Product roles to develop business acumen and financial analysis skills.