

Ayush Sharma

Portfolio

Bachelor of Technology

Institute of Engineering and Technology Lucknow

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GitHub Profile

LinkedIn Profile

EDUCATION

•Bachelor of Technology in Electronics and Communication Engineering

2020-24

Institute of Engineering and Technology Lucknow

CGPA: 8.45

TECHNICAL SKILLS

Languages: C/C++, Javascript, Typescript, Python, HTML+CSS

Web Dev Tools: ReactJS, NextJS, AstroJS, NodeJS, ExpressJS, VScode, Git, Github, MongoDB, MySQL, Mongoose ORM, PostgreSQL, Prisma, Nginx, Redis, Message Queues, Firebase, Docker, Cloud Security, Linux

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Full Stack Development, AWS Cloud, Linode, Software Engineering.

PERSONAL PROJECTS

•Parmarth (IET Lucknow's Official Social Club)

Nov 2022

A website for data management (CRUD), issuing certificates, and admin control for Parmarth Social Club.

- Developed the full platform that helps underprivileged children to get education under RTE.
- Developed features for maintaining all students and volunteers database with high security and 2FA authorized Admin Panel, that manages the CMS (content management system), control features like CRUD operations on students and volunteers database and APIs for sending emails.
- **Impact:** Helped the club to easily maintain students data, organize events and keep records securely.
- **Technology Used:** ReactJS, NodeJS, ExpressJS, Javascript, Nodemailer (2FA and certificate issuing emails), BcryptJS, MongoDB, Mongoose ORM, JWT (for auth).

•Video Transcoding Service

Feb 2024

A fully fledged scalable service for transcoding videos using AWS ECS and 'ffmpeg'.

- Designed a architecture from scratch for API endpoints for video uploads and spinning up containers based on event notifications.
- Highly scalable, containerised and isolated system design.
- **Technology Used:** Typescript, NodeJS, ExpressJS (backend), APIs, AWS ECS (Elastic container service), AWS ECR (for container registry), AWS S3 (with event notification), AWS Lambda (for spinning up ECS containers in feedback of event notifications), FFMPEG, PostgreSQL, Sequelize ORM.

•Query Box (StackOverflow Clone)

Aug 2022

A StackOverflow Clone developed for community discussions and QnA platform using GraphQL and Apollo Server.

- Implemented features like - User authentication, pagination, a custom build recommendation system for most answered and up-voted answers using efficient algorithms.
- **Impact:** Used within programming related communities for doubt resolve, sharing ideas and problem solving.
- **Technology Used:** ReactJS, Apollo Client, Material UI, NodeJS, Javascript, Apollo Server, GraphQL, MongoDB, Mongoose ORM, JWT (for auth).

•Node Email Verifier

Jul 2023

A real time email verifier with email syntax, SMTP, inbox exists, catch-all and mx records checks.

- Developed a real time email verification API that uses TELNET communication to connect and send spoof SMTP call to a mail server for email verification.
- **Technology Used:** Typescript, ExpressJS (for APIs), NodeJS DNS and NET module.

EXPERIENCE

•Software Developer

Oct 2023 - Present

Chatzy AI (Stream Digital Services)

Remote

- Engineered Chatzy AI platform that provide users to create their customized chatbots using various LLMs and their own knowledge base.

•Web Development Intern + Full Time

Dec 2022 - Aug 2023

BrandNav (Rab Stacks LLP)

Remote

- Innovated production app features, executing Programmatic SEO strategies for heightened visibility and automation tools for data scraping and webhooks for data synchronization and subscription services.
- Engineered APIs using ExpressJS in Typescript for type safety, Proxy Servers, and Nginx setup for load balancing, optimizing communication.