

Chirag Ghosh

✉ cghosh828049@gmail.com | 🌐 chirag-ghosh | 🌐 chiragghosh.dev | 💻 cghosh828049 | 📞 +91-8018212895

Education

Indian Institute of Technology Kharagpur

Kharagpur, India

B.Tech, Computer Science and Engineering (CGPA: 9.12/10)

2020 – 2024

Internship

American Express (India) Private Limited

Bengaluru, India

Software Engineer III

June 2024 – Present

- Modernized a legacy **Spring Boot** application using Autowiring and **OpenTelemetry** for modularity and observability.
- Containerized the app and built a CI/CD pipeline using **GitHub Actions** for seamless deployment to OpenShift Hydra.
- Switched runtime to **GraalVM**, reducing memory footprint, and integrated **Kafka Queues** for reliable load handling.
- Managed a **SonarQube DataCenter** cluster used by 18k+ developers; maintained its Jenkins and GHA-based pipelines.
- Built a CI/CD pipeline using **Terraform**, **ArgoCD**, and **AWS EKS** for ephemeral application deployment and testing.

Technology Intern

May 2023 – July 2023

- Built an interactive and drilled-down dashboard in **Grafana** to visualize test tool usage data stored in **Elastic Stack**.
- Resolved issues in Jenkins-to-ELK pipeline comprising **Groovy** and **MongoDB**, improving data accuracy and visibility.

Mello

Bengaluru, India

Frontend Developer Intern

March 2022 – June 2022

- Developed a **React Native** app and **React** admin dashboard, integrating reels and live classes via **Mux** and **100ms**.
- Migrated from CRA/Webpack to **Vite + ESBuild**, improving reload speed and reducing development resource usage.

Projects

BeSafe (B.Tech Project)

August 2023 – May 2024

- Designed a personality-based game to help victims of **Intimate Partner Violence** recognize and address digital abuse.
- Deployed different versions of the game on **AWS** and **Vercel**; designed a custom survey to measure the game impact.
- Conducted pilot user interviews and authored a thesis with evaluations and case studies on existing solutions of IPV.

OPSA

May 2024

- Built a Slack archive viewer with **Golang**, **Rust**, and **HTMX** to access workspace messages and files hidden in free plan.
- Implemented OAuth, full-text search and infinite scrolling to enable seamless exploration of years of message history.

Competitions

- Represented IIT Kharagpur in the **Gold-winning** team at Digital Alpha's SEC filing analysis in **Inter-IIT Tech Meet**.
- **Smart India Hackathon '22** winner - built an interactive dashboard for UGC legal team in under 36 hours.
- Won **Gold** in Photostory and Filmmaking event of **Inter-IIT Cultural Meet 5.0** as part of IIT Kharagpur contingent.

Technical Skills

Programming & Scripting Languages:

Java, JavaScript, Typescript, Golang, Python, Sass, C/C++, Bash

Frontend Frameworks & Tools:

ReactJS, React Native, NextJS, Elastic Stack, Astro, Vite, HTMX

Backend Frameworks & Databases:

Node.js, Express, Selenium, Playwright, PostgreSQL, MongoDB, MySQL

Platforms & Other Tools:

Linux, Github, Jenkins, Docker, Nginx, Terraform, ArgoCD, AWS, Grafana

Voluntary Contributions

Kharagpur Open Source Society

Executive Head

Jun 2021 - Present

- Led **Kharagpur Winter of Code (KWOC)**, a flagship month-long program to promote open-source development.
- KWOC 2022 had **1500+** regular participants, **60+** open-source projects, and **500k+** lines of code contributed.
- Organised hands-on workshops on Git/Github, Linux shell scripting, Python, GSoC for students of IIT Kharagpur.

Open-Source Contributions

- Contributed and Maintained key projects under the **Metakgp** umbrella such as **IQPS**, **Naarad**, **Heimdall** and **Chillzone**.