Avirup Ghosal

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⬡ https://github.com/avirup-ghosal 🌐 https://avirup.hashnode.dev

SKILLS

- **Programming:** Java, JavaScript, TypeScript, Python, Golang, Solidity
- **Frontend:** React, Next.js, Zustand, Recoil.js, Tailwind, CSS, HTML
- **Backend:** Node.js, Express.js
- **Databases:** MongoDB, PostgreSQL, MySQL
- **DevOPS:** Docker, Docker Compose, Git, GitHub, Ansible
- **Cloud:** Amazon Web Services

PROJECTS

RepoRadar – AI-Powered GitHub Repository Explorer ⬀
July 2025

- **Tech Stack:** Next.js, TypeScript, Docker, GitHub Actions, AWS EC2
- Built a full-stack web app to explore GitHub repositories by keyword, stars, language, and topics.
- Integrated Gemini 1.5 Flash API for intelligent summaries and repo insights.
- Used multistage and distroless Docker builds, cutting image size by 50%.
- Configured GitHub Actions CI/CD with secret injection and self-hosted EC2 runner.
- Published public Docker image to Docker Hub for streamlined deployment.
- Live site here

PayZap – Three-tier Payment Simulator ⬀
June 2025

- **Tech Stack:** React, Tailwind, Node.js, Docker, AWS EC2, NGINX
- Simulated peer-to-peer payments and digital wallet transactions.
- Secured auth and user profiles with JWT and MongoDB.
- Built REST APIs with Node.js/Express; deployed via Docker and NGINX reverse proxy.
- Live site here

CarbonTrace – Real-time Coal Transport Monitoring Dashboard ⬀
April 2024

- **Tech Stack:** React, Tailwind, Chart.js, Express.js, MongoDB
- Frontend lead for a finalist hackathon project detecting coal transport anomalies.
- Developed dashboards for weight, moisture, and anomaly tracking using React & Chart.js.
- Built responsive components with Tailwind and integrated backend APIs.
- Live site here

EXTRACURRICULAR

CodeUtsava 8.0
November 2024

Frontend Developer
NIT RAIPUR

- Worked as the Frontend Developer for our team that reached the finals of CodeUtsava 8.0, a national-level hackathon.

EDUCATION

University of Engineering & Management, Kolkata
2023 – 2027

Bachelor of Technology in Computer Science and Engineering - **CGPA - 8.69**
Kolkata, India