AYAN GHOSH

Full Stack Developer

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CAREER OBJECTIVE

Final-year Computer Science undergraduate and full stack developer with hands-on experience founding and building a development agency, shipping multiple production web applications, and architecting a security-focused AI-powered CLI tool. Skilled in React, Next.js, Python, and Java, with a strong record of end-to-end ownership from database design to deployment. Seeking a full-time software engineering role to apply this experience at scale.

EXPERIENCE

Founder & Full Stack Developer | *PAROT (parot.dev)* 2025 – Present

- Founded and lead a 6-member development agency delivering full stack web applications, design systems, and consulting for real clients across e-commerce, real estate, and creative industries.
- Own database management and API development across the team's product line, including PostgreSQL/MongoDB schema design and backend architecture.
- Delivered **Nestate**, a real estate property management platform with OCR-integrated document processing — designed and built the complete backend and database layer (60–70% of total development).
- Provided technical consulting and frontend development/design fixes for client project Amusicals (amusicals.in), a music portfolio site.

PROJECTS

Nestate — Real Estate Property Management Platform | *nestate.parot.dev*

- Built a full property management platform with tenant management, automated workflows, and financial insights dashboards; implemented OCR-based document intake.
- Designed and implemented the complete backend and database architecture (Next.js, MongoDB).

Neo-ride — Unified Travel Booking Platform | *neoride.parot.dev*

- Co-founded and developed a booking platform unifying train, car, and flight travel search into a single interface.
- Built with React, Vite, and MongoDB; implemented core booking flow and UI.

AgroWatch — AI-Powered Precision Farming Platform | *agrowatch.parot.dev*

- Built for Smart India Hackathon (SIH) 2025 to address a precision-farming problem statement for Kerala farmers; fully developed by self with a student team.
- Reached the college internal round of SIH 2025 selection.

Cypher CLI — Security-Focused CLI with AI Runtime | *github.com/Ayan-Flash/Cypher*

- Re-engineered an open-source CLI foundation into a security-first developer tool that analyzes codebases for vulnerabilities and reduces data-breach risk.
- Designed the tool's core architecture: a senior-security-engineer persona, a strict no-silent-fix workflow, and coverage across application, API, infrastructure, and supply-chain security domains.

EDUCATION

B.Tech, Computer Science & Engineering	JIS College of Engineering	2023 – Present	CGPA: 8.02
Higher Secondary (Class XII)	Ranaghat P.C High School	2020 – 2023	78.4%
Secondary (Class X)	Ranaghat P.C High School	2010 – 2020	81.01%

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, TypeScript
Frontend: React.js, Next.js, Vite.js, Tailwind CSS
Backend & Database: Node.js, MongoDB, PostgreSQL, REST APIs, GraphQL
Tools & Platforms: Git/GitHub, Docker, AWS, Vercel, Figma

CERTIFICATIONS

- Deloitte Cyber Job Simulation — Forage (Aug 2025)
- GenAI Powered Data Analytics Job Simulation — Forage (Aug 2025)
- ZScaler Networking Virtual Internship (Apr – Jun 2025)
- Google Cloud Generative AI Virtual Internship (Jan – Mar 2025)

PUBLICATIONS & PATENTS

- Patent Application: "Weighted Susceptible-Infected-Recovered-Deceased Epidemic Model" — Application No. 202531010635 A, filed 14/02/2025