

ARKA DAS

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PROFESSIONAL SUMMARY

Computer Science undergraduate skilled in MERN stack, SQL, Java and data structures & algorithms. Experienced in full-stack development, RESTful APIs, Git, AWS and Agile. Strong in troubleshooting, clean coding, and analyzing technical requirements. Interests include Football, Financial Markets, and Model United Nations, reflecting teamwork, strategic thinking, and leadership.

EDUCATION

University of Engineering and Management <i>Bachelor of Technology in Computer Science & Technology</i>	Kolkata, India 2022 – 2026
Salt Lake Point School <i>ISC - Class XII</i>	Kolkata, India 2022
Sri Aurobindo Institute of Education <i>ICSE - Class X</i>	Kolkata, India 2020

EXPERIENCE

Fastcrew — Hospitality Staffing Platform <i>Product Engineer</i>	Nov 2025 – Present Kolkata, India
<ul style="list-style-type: none">– Built partner and talent onboarding flows and role-based user journeys for hospitality partners and job seekers.– Developed partner and talent dashboards using React and Next.js to manage jobs, applications, and candidate pipelines.– Designed and implemented complete PostgreSQL database schema using Prisma with Supabase for partners, talents, jobs, applications, and related entities.– Implemented secure authentication and session management using Clerk and role-based access control across product flows.– Integrated automated testing including unit and integration tests to validate APIs and frontend workflows.– Collaborated with founders to iterate MVP features based on pilot user feedback and operational requirements.	

PROJECTS

Cloud IDE Execution Platform <i>Typescript, React, Node.js, Express.js, WebSockets, Docker, Kubernetes, AWS S3</i>
<ul style="list-style-type: none">– Developed a cloud-native online IDE that launches isolated multi-language dev environments (Node.js, Python, C/C++, Go) inside secure, auto-scaling Kubernetes pods.– Built an Orchestrator API to create per-project containers, attach dynamic subdomains via NGINX Ingress, and initialize project templates from S3.– Implemented a real-time Runner Service using node-pty and Socket.IO to provide terminal streaming, file editing, and hot reload directly in the browser IDE.– Persisted full workspace state to AWS S3 with batched writes, enabling session recovery and future collaborative editing.– Containerized all components with Docker and deployed via Kubernetes + Helm for sandboxing, autoscaling, and secure remote code execution.
GitHub: github.com/okkopaja/cloud-ide-platform

TECHNICAL SKILLS

Languages: HTML, CSS, JavaScript, TypeScript, Java
Backend: Node.js, Express.js, REST APIs, WebSockets, Supabase
Frontend: React.js, Next.js
Databases: PostgreSQL, MongoDB, Redis
Cloud & DevOps: AWS (S3, EC2), Docker
Infrastructure & Tools: Git, GitHub, Nginx, Postman, Linux

CERTIFICATIONS

The Complete Full Stack Web Development Bootcamp – Udemy (Completed)
0–100 Full Stack Web Development Course – 100xDevs (In Progress)
AWS Cloud Solutions Architect Professional Certificate – Coursera (In Progress)
Certificates link: shorturl.at/d6za2

AREAS OF EXPLORATION

Object-Oriented Programming with Java
Database Management Systems
Cloud Computing