

Ankan Pal

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Summary

DevOps Engineer and Full-Stack Developer with 2+ years of experience building cloud-native systems and scalable applications. Experienced in containerization, CI/CD pipeline automation, and backend architecture to deliver highly available, resilient infrastructure and production-grade software.

Education

Academy Of Technology (under MAKAUT, WB) — West Bengal, India
B.Tech in Computer Science and Engineering | GPA: 8.7 — *September 2023 – Present*

Holy Angels' School — West Bengal, India
ISC (Class XII) | Score: 91% — *February 2021 – May 2023*

Holy Angels' School — West Bengal, India
ICSE (Class X) | Score: 94.4% — *March 2020 – May 2021*

Work Experience

ProjectX.Cloud (ProjectX Infinity Inc.) — Remote
DevOps Engineer — *March 2024 – Present*

- Spearheaded the automation of AWS infrastructure provisioning using Terraform, reducing deployment times by 40% and lowering infrastructure costs by 25% through elimination of manual configurations.
- Managed and optimized cloud services including EKS, EC2, and Route53, supporting 99.9% uptime for production workloads and improving system performance by 30%.
- Automated infrastructure workflows, CI/CD deployments, and configuration management, reducing manual intervention by 60% and accelerating release cycles by 35%.
- Monitored system performance and resolved production issues, decreasing incident resolution time by 50% and improving overall system reliability and availability metrics.
- Contributed to the core development of InfinityOS, enabling seamless application streaming to 5,000+ users across devices via browser-based access.
- Maintained and curated a catalog of 30+ Linux applications optimized for cloud deployment, reducing dependency bloat by 40% and improving security posture.
- Configured advanced display and audio streaming solutions, reducing latency by 15% and enhancing end-user experience for remote application access.
- Developed and tested GPU support integration, improving performance of resource-intensive workloads by 50% and increasing system utilization efficiency.

Resourcio Private Limited — Remote
Backend & Software Developer — *June 2025 – October 2025*

- Developed custom backend systems and automation solutions, delivering 10+ client projects with 99.9% reliability and reducing manual workflows by 50%.
- **E-Commerce Architecture:** Designed and deployed a scalable e-commerce backend handling 100+ products and 50+ monthly orders, implementing secure payment integrations and RBAC for 3 distinct user roles, improving system security and operational efficiency by 35%.
- **Bulk Mailer Tool:** Engineered a high-throughput desktop application (Python/Tkinter) capable of sending 50,000+ emails/day, supporting multi-SMTP rotation, batch processing, and dynamic attachment generation (PDF, PNG, DOCX), increasing campaign efficiency by 60%.
- Integrated 8+ third-party APIs and automated document rendering pipelines, reducing processing time by 45% and eliminating manual intervention in document workflows.
- Collaborated with cross-functional teams to deliver 5+ projects under tight deadlines, reducing delivery timelines by 30% while maintaining high code quality and performance standards.

Technical Skills

Languages: Java, Kotlin, Python, Golang, JavaScript, TypeScript, C++, C, SQL (MySQL, PostgreSQL), Bash, HTML, CSS
Frameworks: Spring Boot, React.js, Next.js, Node.js, Express.js, FastAPI, Flask, Jetpack Compose, Tailwind CSS
Cloud & DevOps: AWS, Azure, GCP, Docker, Kubernetes, Terraform, ArgoCD, GitHub Actions, Linux, Firebase
Tools & Security: Git, REST API, gRPC, Selenium, Web Security, Strapi CMS, Vite, Webpack

Projects

GnosisCode | *React.js, Express.js, Node.js, PostgreSQL, PrismaORM, Docker* August 2024 – April 2025

- Built a comprehensive LeetCode-style coding platform for colleges to track student performance.
- Implemented real-time code execution analysis, performance dashboards, and efficient lab monitoring tools.
- Orchestrated secure user authentication and role-based access control for students and faculty.

TechFiesta Backend | *Express.js, TSOA, PostgreSQL, PrismaORM* March 2025 – April 2025

- Deployed the central backend for our college tech fest, securely managing thousands of registrations and payments.
- Ensured zero downtime during high-traffic windows via optimized database schemas and real-time reporting.

EcoGrow | *Next.js, Express.js, MongoDB, ConductorOSS, Cloud Integration* February 2025

- Developed a sustainable web platform leveraging iframe technology to generate ad revenue for tree planting.
- **Achievement:** Finalist (Top 8) at FrostHacks S01; pitched to TCS executives and academic leaders.

EcoNFT | *Next.js, Express.js, MongoDB, Blockchain, Web3, Solidity, HardHat* February 2025

- Created a decentralized platform incentivizing tree planting by awarding unique NFTs for contributions.
- Showcased expertise in blockchain integration and real-world sustainability applications during Diversion 2025.

WiseShield AI | *Python, Machine Learning, Chrome Extension* July 2024

- Created an AI-powered browser extension to detect phishing sites in real-time using ML models during Hack4Bengal 3.0.
- Engineered proactive redirection mechanisms to protect users from malicious domains.

Sentry Radar System | *Java, Embedded C++, Arduino, IoT* September 2022

- Led hardware and software design for a SONAR-based defense system.
- Programmed real-time object detection logic and engineered remote Android connectivity.
- **Achievement:** Secured 2nd Position in Inter-School Science Exhibition.

ArgumentCatcher | *Java* May 2022

- Developed a middleware tool to capture and analyze process launch arguments for debugging purposes.
- Enhanced developer workflows by visualizing process interactions in complex environments.

GitHub Contribution Graph Designer | *React.js, Python Automation* February 2021 – April 2021

- Engineered a full-stack tool allowing users to design and replicate custom GitHub contribution patterns.
- Automated the generation and pushing of commit histories to match user designs.

Achievements & Additional Information

Recognition: Top 8 Finalist at FrostHacks S01 (EcoGrow); Secured 2nd Position in Inter-School Science Exhibition for Sentry Radar System (IoT)

Soft Skills: Collaboration, Problem-solving, Time Management, Adaptability, Analytical Thinking.

Languages: English, Bengali, Hindi.