

# Ayush Kumar

ayushedith@gmail.com | +91 9693067837 | ayushx.me | github.com/zynorex | linkedin.com/in/ayushxlinks

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## SUMMARY

Full stack software developer shipping production tools used by 6 million+ users – spanning zero-trust security systems, SaaS platforms and real-time audio infrastructure. Strong foundations in data structures, algorithms, cloud architecture and end to end product ownership.

## TECHNICAL SKILLS

**Languages and Frameworks:** JavaScript, TypeScript, Python, Rust, Solidity, SQL, ReactJS, NextJS, Node.js, HTML5, CSS3, Tailwind CSS

**Backend, Cloud and DevOps:** Node.js, RESTful APIs, Redis, PostgreSQL, MySQL, AWS (EC2, S3, VPC, IAM, CloudWatch), GCP, Azure, Docker, GitHub Actions CI/CD

**Security and AI:** AES 256 GCM, Shamir's Secret Sharing, zero-knowledge architecture, LangChain, OpenAI API, Hugging Face

**Methodologies:** Git, Agile, Scrum, SDLC, object oriented programming, code review, CI/CD pipelines, Microservices

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## PROFESSIONAL EXPERIENCE

**Cloud Engineer Intern | Aditya Consulting and Engineering Services | Ranchi, JH** May 2025 to Jun 2025

- Architected and deployed AWS EC2 and VPC infrastructure using Infrastructure as Code templates, cutting environment provisioning time by 40% across 3 production services.
- Resolved 12+ IAM and network security misconfigurations via AWS CloudWatch and Config audits, achieving zero SLA breach events throughout the engagement.

**Frontend Developer Intern | AIRING Private Ltd. | Remote** Jan 2025 to Feb 2025

- Engineered 8+ ReactJS components integrated with 5 Node.js RESTful API endpoints, reducing average page load time by 35% on a high traffic web portal.
- Delivered full stack registration and profile flows from frontend validation to backend submission, ensuring 100% data integrity across all test cases.

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## PROJECTS

**T.A.L.A | [usetala.in](#)** NextJS • Solidity • Node.js • IPFS • Arweave • AES 256 GCM Dec 2025

- Engineered a zero-trust time-lock vault platform with AES-256-GCM client-side encryption, IPFS and Arweave redundant storage, and Polygon smart contracts that autonomously unlock assets with zero server-side plaintext exposure.
- Architected all 6 platform layers solo: encryption engine, TalaVault.sol contract, Shamir's Secret Sharing key reconstruction, decentralised storage mesh, REST API and analytics dashboard – shipped to production in 90 days.

**CaptureCraft | [capturecraft.app](#)** NextJS • TypeScript • Redis • Node.js • AWS Dec 2024

- Launched a SaaS screenshot and mockup generator competing with Screely and Shots.so, scaling to 3,000+ users and 10,000+ assets; optimised Redis caching to cut canvas processing latency by 60%, deployed via CI/CD on AWS.

**Swelly | [swelly.in](#)** NextJS • Node.js • Python • PostgreSQL Dec 2023

- Scaled a multi-source Discord music platform (Spotify, YouTube, Apple Music, SoundCloud) to 6 million+ users across 32,000+ servers; built real-time dashboard, premium billing and support ticketing with 99% uptime.

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## EDUCATION

**B.Tech in Computer Science and Engineering** 2024 to Present

Maharishi Markandeshwar University, Ambala CGPA: **8.71**

**Diploma in Computer Science and Engineering** 2021 to 2024

Netaji Subhash Institute of Technology, Patna CGPA: **8.25**

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## CERTIFICATIONS

**AWS Certified Cloud Practitioner (Associate) | Amazon Web Services** 2026

**Google Cybersecurity Professional Certificate | Google / Coursera** 2025

**Claude AI Fluency and Framework | Anthropic** 2025