Ayush Kumar

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SUMMARY

Full stack software developer with production experience shipping systems used by 6 million+ users, specializing in ReactJS, Node.js, TypeScript, AWS cloud infrastructure and zero-trust security architecture. Proven end-to-end product owner delivering RESTful APIs, CI/CD pipelines, decentralized storage and polished frontend interfaces with strong foundations in data structures, algorithms and software engineering.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Rust, Solidity, SQL

Frontend: ReactJS, NextJS, Tailwind CSS, HTML5, CSS3, responsive design

Backend and APIs: Node.js, RESTful API design, real-time data sync, Redis, PostgreSQL, MySQL, Microservices

Cloud and DevOps: AWS (EC2, S3, VPC, IAM, CloudWatch), Docker, Kubernetes, Terraform, Serverless Architecture, CI/CD

Security and Observability: AES-256-GCM encryption, zero-trust architecture, Prometheus, Grafana (familiarity)

Methodologies: Git, Agile, Scrum, SDLC, OOP, code review, full stack development

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.

PROJECTS

VREN | vren.tech NextJS • Solidity • Polygon PoS • PostgreSQL • Redis *May 2026*

- **Tech Stack:** NextJS 15, TypeScript, Solidity, Polygon PoS, PostgreSQL, Upstash Redis, JWT
- Built a wallet-based subscription SDK positioning VREN as the payment layer for Web3 builders, implementing on-chain feature gating and a 1.5% transaction revenue model; architected the full stack at $0/month using Neon PostgreSQL, Upstash Redis and Alchemy RPC.

Swelly | swelly.in NextJS • Node.js • Python • PostgreSQL *Dec 2024*

- **Tech Stack:** NextJS, Node.js, Python, PostgreSQL, Redis
- Scaled a multi-source Discord music platform (Spotify, YouTube, Apple Music, SoundCloud) to 6 million+ users across 32,000+ servers, sustaining sub-200ms audio latency with 99% uptime under continuous high-throughput load.

T.A.L.A | usetala.in NextJS • Solidity • AES-256-GCM • IPFS • Arweave *Dec 2025*

- **Tech Stack:** NextJS, Node.js, Solidity, IPFS, Arweave, AES-256-GCM, Shamir's Secret Sharing
- Engineered a zero-trust time-lock vault platform applying 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 smart contract, Shamir's Secret Sharing key reconstruction, decentralized storage mesh, RESTful API and analytics dashboard. Shipped to production in 90 days.

EDUCATION

B.Tech CSE (specialization in Cloud Computing and Information Technology) *2024 to Present*

Maharishi Markandeshwar University, Ambala CGPA: **8.20**

Diploma in Computer Science and Engineering *2021 to 2024*

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

CERTIFICATIONS

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

Google Cybersecurity Professional Certificate | Google / Coursera *2025*

Claude AI Fluency and Framework | Anthropic *2025*