





AYAN MODAK


Backend | Blockchain Developer

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 Mumbai, India

EXPERIENCE

Software Engineer Backend

EmerTech Innovations

01/2023 - Present

Mumbai, India

A company with mission to build solutions through breakthrough technologies which will positively impact human lives.

- Built and maintained scalable **REST/GraphQL** services, event-driven pipelines, and optimized database schemas using **Node.js**, **TypeScript**, and **Prisma**, improving backend response times by **30-40%** and reducing infrastructure costs by **25%** through **Redis caching** and query optimization.
- Designed and deployed secure, high-performance architectures on **AWS** (VPC, Lambda, ASG, S3) with **Docker** and **Nginx**, achieving **99.99%** uptime and improving deployment speed by **35%** via automated **CI/CD pipelines**.
- Led infrastructure migration and provisioning using **Terraform**, enabling consistent, version-controlled deployments and reducing environment setup time by **50%**.
- Implemented **database indexing**, **GraphQL** resolver optimization, and API request batching, cutting critical workflow execution time by **40%** and boosting throughput by **20%** under peak load.
- Led the integration of blockchain-based solutions for **supply chain management**, enhancing **data transparency** and **auditability**, which reduced manual reconciliation efforts by **50%**.
- Mentored junior developers, introduced internal tooling to streamline local development, and improved overall developer productivity by **15-20%**.

Software Engineer Intern

Crypticonic Security

12/2021 - 03/2022

Kolhāpur, India

A company with mission to Protecting the Cyber Space

- Developed responsive and dynamic web applications using **React.js**, **Next.js** and **Node.js**.
- Designed and implemented backend APIs, integrated with **MongoDB** for efficient data management.
- Gained hands-on experience with **Linux** environments for development and deployment tasks.
- Conducted web security testing using tools like **Burp Suite**, **Nmap**, **Wireshark**, and **SQLmap** to identify and address vulnerabilities.
- Collaborated with the team to deliver secure, high-quality projects within tight deadlines.

PROJECTS

Zahabi

01/2025 - Present

Mumbai, India

[zahabi.in](#)

RWA(Real-World Assets Tokenization)

- Built a blockchain-based platform enabling financial institutions and retailers to **monetize idle gold assets** through secure tokenization and smart contracts.

EDUCATION


Bachelor of computer science

SG University

06/2019 - 06/2023


Kolhapur, India

KEY ACHIEVEMENTS




AI-Driven Evidence Management

Developed and deployed a pilot AI-powered evidence management system for the Crime Branch, aimed at enhancing case handling efficiency and accuracy.



Blockchain Tree Plantation Tracking

Built a blockchain-based track-and-trace module for tree plantation, enabling transparent monitoring for organizations and tracking over **1.7 million planted trees**.



Secure Certification Platform

Built blockchain-based certification system for the **Rubber Board of India**, ensuring authenticity, transparency, and fraud prevention.

SKILLS

AWS

CircleCI

Kubernetes

Neo4j

Blockchain

Terraform

MongoDB

NestJS

Figma

Node.js

Grafana

Jenkins

GraphQL

Nginx

Firebase

GraphQL

Ansible

Prometheus

PostgreSQL

Neo4JS

Kafka

JavaScript

Next.js

React

Tailwind

TypeScript

Linux

Docker

C/C++

Socket.io