

AASHUTOSH KARALE

Software Engineer

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SUMMARY

I am a Software Engineer specializing in backend development, particularly knowledgeable in microservices architecture and IoT platforms. My experience encompasses optimizing data ingestion and creating scalable APIs utilizing technologies such as Node.js, TypeScript, and Go. I excel in deploying secure applications via CI/CD pipelines and cloud environments, with a strong focus on performance and security

EXPERIENCE

Associate Software Engineer

FIREWIRES ONEIOT

07/2024 Hyderabad

A company specializing in IoT platform solutions

- Optimized data ingestion and query performance for a high-throughput IoT platform using TimescaleDB and PostgreSQL, **directly enabling** improved system scalability
- Developed and maintained backend microservices using Node.js and TypeScript, integrating with message queues like RabbitMQ and Kafka to ensure reliable, asynchronous data processing
- Collaborated with AI and DevOps teams to build and deploy new services, gaining hands-on experience with LLMs, Elastic, Redis, and monitoring tools like Grafana within a CI/CD pipeline

Backend Developer Intern

VIPRUSH TECHNOLOGIES PVT. LTD

01/2024 - 06/2024 Nagpur

A technology company focused on backend development

- Enhanced application security by architecting and implementing a Role-Based Access Control (RBAC) system using Node.js and Express.js, restricting route access to authorized user roles (e.g., admin, user)
- Secured API endpoints by integrating token-based authentication, ensuring that only authenticated and authorized users could access sensitive data and resources

EDUCATION

Bachelor of Technology

SHRI GURU GOBIND SINGHJI INSTITUTE OF ENGINEERING AND TECHNOLOGY

11/2020 - 06/2024 Nanded, MH

Higher Secondary

ZILLA PARISHAD'S AGARKAR JUNIOR COLLEGE

01/2018 - 05/2020 Akola, MH

KEY ACHIEVEMENTS

Competitive Programming Achievement

Achieved Global Rank 322 in CodeChef Rated Contest EXUN.

Leadership in Robotics

Served as Student Coordinator & Robocon Lead at Team RNXXG, demonstrating leadership in robotics.

SKILLS

Microservices IoT Node.js

TypeScript JavaScript SQL

Python Golang Express.js

REST Socket.IO PostgreSQL

MongoDB Redis InfluxDB

AWS Docker Git Grafana

React Next.js LLMs Kafka

Elasticsearch Robotics

PROJECTS

Fin Intel Platform

Built a distributed Golang-based microservices platform for real-time transaction ingestion, risk scoring, and AI explanations using Kafka, PostgreSQL, TimescaleDB, and Docker.

Permissy

Architected and developed a full-stack web application to digitize and streamline administrative permission requests in educational institutions, reducing manual paperwork and processing time.