Visvapravin R

Backend Engineer | Cloud Engineering | Java | Azure

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Professional Summary

Computer Science undergraduate focused on **backend engineering and cloud computing**, with hands-on experience in Java, Spring Boot, REST APIs, Microsoft Azure, and system design. Experienced in developing **SaaS backends, authentication systems, cloud deployments, and distributed services**. Seeking backend and cloud engineering roles focused on scalable and reliable systems.

Education

K. Ramakrishnan College of Technology, Trichy *2023 – 2027*

B.E. Computer Science and Engineering

CGPA: 7.5/10

Experience

Cloud Architect Intern – C K P Software Technologies *Jun 2026 – Nov 2026*

- Developed backend modules using **Java and Spring Boot** for cloud-based applications.
- Built and deployed the **FieldScope SaaS platform**, contributing to Microsoft Azure deployment, monitoring, and cloud optimization.
- Designed and integrated **REST APIs** and worked with Azure services, deployment workflows, Kafka, and RabbitMQ.

Full Stack Developer Intern – Kenesis Pvt. Ltd. *Feb 2025 – Mar 2025*

- Developed application features using **React, Node.js, Firebase Authentication, JWT, and Firestore** for cloud-backed workflows.

Projects

ForumX – Multi-Tenant Discussion Platform

Java | Spring Boot | PostgreSQL | Hibernate | Spring Security | Azure

- Designed and developed a **multi-tenant SaaS backend** enabling organizations to integrate discussion and community functionality through APIs.
- Implemented **JWT authentication, refresh tokens, Spring Security, role/permission-based authorization**, DTOs, validation, and centralized exception handling.
- **Deployed and managed the backend on Microsoft Azure**, with architecture supporting Kafka, RabbitMQ, Redis, and WebSocket-based communication.

AI-IoT Automated Drainage Monitoring System

React | TypeScript | Firebase | AWS Lambda | XGBoost | Raspberry Pi | ESP32

- Developed an **AI-powered IoT platform** integrating Raspberry Pi, ESP32, environmental sensors, Firebase, and cloud services for real-time drainage monitoring.
- Built dashboards for **water level, turbidity, gas levels, and drainage conditions**, with real-time sensor processing and cloud-connected workflows.
- Developed an **XGBoost prediction pipeline with AWS Lambda** to identify potential flooding conditions and trigger automated alerts.

KRCT Social Platform

React | TypeScript | Firebase Authentication | Firestore | Tailwind CSS

- Built a student community platform using **React and TypeScript**, implementing profiles, posts, interactions, moderation, and reporting.
- Integrated **Firebase Authentication and Firestore** for authentication, real-time synchronization, and cloud-backed data management.

Technical Skills

Languages: Java, Python, JavaScript, SQL
Backend: Spring Boot, Spring Security, REST APIs, JWT, Hibernate
Cloud: Microsoft Azure, AWS Lambda, IAM Fundamentals
Databases: PostgreSQL, MongoDB, Firebase, Firestore
Distributed Systems: Apache Kafka, RabbitMQ, Redis, WebSockets
DevOps & Tools: Docker, Kubernetes, Git, GitHub, Postman, VS Code
Core Concepts: System Design, OOP, API Design, Multi-Tenancy, Authentication & Authorization

Certifications

Microsoft Certified: Azure AI Engineer Associate (AI-102) | **NPTEL – Database Management Systems**