

PROFESSIONAL SUMMARY

Scala Backend Engineer with 4+ years of experience building production-grade distributed systems and microservices using Scala, Akka, Python and Java. Experienced in event-driven architectures, asynchronous programming with Futures and Akka Actors, Microsoft Teams integrations, enterprise APIs, and AI-powered backend services. Strong background in functional programming, REST APIs, and test-driven development. Proven experience owning backend features from design through production deployment.

EXPERIENCE

Software Engineer II

Vantage Circle • Jul 2023 – Present

- Built backend services for the **Vantage Rewards Agent**, a Microsoft 365 Copilot solution integrating Microsoft Teams, Microsoft Graph APIs, tool calling, and enterprise authentication. The solution was showcased during **Microsoft Ignite 2024**.
- Designed and implemented backend APIs powering Copilot function calling, enabling users to access employee recognitions, approvals, work anniversaries, badges, and other platform capabilities directly from Microsoft Teams.
- Designed and implemented a **Redis Streams-based notification pipeline** processing approximately **100,000 notifications per day**. Introduced Consumer Groups, acknowledgements, retry queues, pending message recovery, and Retry-After handling, improving notification delivery to **~99%** while eliminating message loss during server restarts.
- Designed **Microsoft Teams integrations** using Microsoft Graph APIs, Single Sign-On (SSO), Adaptive Cards, and tenant-aware backend services. Added support for Microsoft Conditional Access authentication flows.
- Independently built **Recognition Guide**, a production AI service using Python, FastAPI, and OpenAI Responses API. Designed prompts, conversation memory, evaluation pipelines, and rewrite workflows to help users create high-quality employee recognition messages. Production AI features currently serve approximately **50,000 users**.
- Built **AI Announcement Guide** for generating and rewriting company announcements using OpenAI APIs.
- Migrated configurations from hardcoded application settings to a database-driven architecture, improving scalability and simplifying configuration management.
- Mentored interns, participated in technical design discussions, and owned backend features from architecture through production deployment.
- Followed Test-Driven Development (**TDD**) practices by writing Scala specification tests for backend services.

Associate IT Consultant

ITC Infotech • Feb 2022 – May 2023

- Developed backend services for an internal enterprise application using Java, Spring Boot, REST APIs, JDBC, and MySQL.
- Built and maintained REST APIs supporting internal business workflows.
- Automated recurring operational processes using Python and PowerShell, reducing manual effort.
- Worked with Git-based development workflows and testing practices to deliver reliable backend services.

TECHNICAL SKILLS

Languages: Scala, Java, Python, SQL

Frameworks: Play Framework, FastAPI, Spring Boot

Distributed Systems: Redis Streams, Consumer Groups, Event-Driven Architecture, Asynchronous Processing

APIs & Integrations: REST APIs, GraphQL, Microsoft Graph API, Microsoft Teams, Microsoft 365 Copilot

AI: OpenAI Responses API, Prompt Engineering, Conversation Memory, Function Calling

Databases: MySQL, Redis

Practices: Functional Programming, Test-Driven Development (TDD), Git, Jenkins

EDUCATION

Bachelor of Technology (Information Technology)

Gauhati University Institute of Science and Technology

2017 – 2021 • CGPA: 7.62