

# MICAH JOSEPH

Software Developer At UBS

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## WORK EXPERIENCES

### Backend Developer | Full-time

Sep 2023 - Present

UBS

Pune

#### Distributed System Health Monitoring Platform

- Designed a **monitoring pipeline** by extracting **span-level health metrics** from **Mainframe (z/OS) test systems** using **Python-based automation scripts**.
- Built **Java Spring Boot backend services** to process, normalize, and expose **system health data via REST APIs**, enabling real-time observability.
- Enabled **continuous monitoring of 4 test plexes** across the **APAC region**, tracking CPU usage, job latency, error counts, and system availability.
- Integrated **OpenTelemetry** with Java services to export metrics and traces, which were visualized on **Grafana dashboards** for proactive issue detection.
- Reduced **manual health-check effort by ~60%** by replacing spreadsheet-based checks with automated dashboards.
- Improved **incident triage time by ~35%** in test environments by centralizing metrics and alerts.
- Supported **~1,500+ daily metric events** in test workloads with stable API response times under **200ms**.

#### Global Mainframe Health Monitoring Platform

- Built and maintained a **live Power BI dashboard** monitoring **Mainframe system health across APAC, USA, and Switzerland** for **30+ active systems**.
- Implemented a **Data Mesh-based ingestion approach**, using Python automation to fetch, standardize, and publish **region-wise health datasets** for analytics consumption.
- Enabled **automated email alerts** and scheduled refreshes (**30–60 min**) to track system availability, reducing **manual system monitoring effort by ~50%**.

**Technologies / Skills** : Java 11 , Spring Boot , Python, REST APIs, OpenTelemetry, Grafana, Mainframe (z/OS – Test),  
**Used** : Power BI, Python Automation, Email Alerts

### SDE Intern | Internship

Jan 2023 - Jun 2023

UBS

Pune

#### AI-Powered Knowledge Assistant for New Joiners

- Built a **Java Spring Boot backend** integrated with an **AI-powered RAG chatbot** to help **1,000+ users** discover and query internal **documents, videos, blogs, and onboarding resources**.
- Implemented **retrieval-augmented search and natural-language Q&A**, enabling contextual responses over curated knowledge sources using LLM integration.
- Designed scalable **REST APIs** for content ingestion and chatbot interactions, improving **self-service onboarding and knowledge accessibility**.

**Technologies / Skills** : Java , Springboot, Python , Rest APIs, Large Language Model (LLM), Retrieval-Augmented  
**Used** : Generation (RAG)

## EDUCATIONS

### VIT Vellore

Jul 2019 - Jul 2023

B.Tech Information Technology

Vellore

## PROJECTS

### Multi-Agent AI System

- Built a **production-style multi-agent AI orchestration system** using Python and CrewAI, integrating **GPT-4o & Claude**, web search, structured outputs (Pydantic/JSON), persistent memory (vector + SQL), and custom tools to enable collaborative research, financial analysis, and autonomous code generation.

## SKILLS

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<b>Programming Languages :</b>	Java, Python
<b>Frameworks &amp; Libraries :</b>	Spring Boot, Spring Web (REST APIs), Spring Security (Basic Auth / JWT), RAG (Retrieval-Augmented Generation), LLM Integration, Embeddings
<b>Tools &amp; Platforms :</b>	GitHub, Git, GitLab
<b>Databases :</b>	PostgreSQL, MySQL

## CERTIFICATIONS

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### AZ 900 Cloud Fundamentals

*Microsoft*

### AI 900

*Microsoft*