Mahendran Jinachandran

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Professional Summary

Junior Java Full Stack Developer with 3+ years of experience building enterprise-grade Java/Spring Boot applications, REST APIs and distributed systems in Agile environments. Strong background in API development, microservices architecture, CI/CD pipelines and cloud-native deployment. Experienced in collaborating with cross-functional teams and delivering scalable, reliable solutions. Holds a master's degree in Artificial Intelligence & Machine Learning and a Stamp 1G visa with full work authorization in Ireland

Professional Experience

Software Engineer | Zoho Corporation, India — Apr 2022 – Jul 2024

- Designed and optimized Spring Boot–based REST APIs for Zoho Desk, improving API response times by 30% through clean architecture, efficient complex SQL query handling and caching strategies.
- Redesigned service workflows involving authentication, request validation, caching layers and database optimization, reducing PostgreSQL load by 25% and improving system scalability under high traffic.
- Enhanced microservice-to-microservice communication using Feign clients, improving service reliability and reducing inter-service failures by 20%.
- Performed robust exception handling, logging, and monitoring using Spring AOP and logging frameworks, reducing production debugging time by 40%.
- Worked in an Agile/Scrum environment, actively participating in sprint planning, code reviews, and CI/CD-driven releases using Git and Jenkins.
- Contributed to a customer-facing iOS application (Zoho Desk – 4.75/5 rating, 100K+ installs) using SwiftUI, UIKit, and Combine, delivering multiple production features including real-time messaging with bot and live-agent support.
- Built and maintained a reusable UI framework distributed via Cocoa Pods and Swift Package Manager, standardizing UI components across 20+ applications and reducing development effort by 50%
- Led platform upgrades from iOS 12 → iOS 14 and introduced iOS 17 support, improving team productivity by 10% and reducing crash rates by 40% through CoreData optimization.

Software Engineer| Multicore Ware, India — Sep 2021 – Mar 2022

- Developed FastAPI-based backend services in Python with Redis caching, reducing response latency by 20% and improving overall system performance by 25%
- Automated large-scale data extraction workflows from Excel and Word documents using Linux-based Bash scripting saving 10+ hours per week and collaborated closely with engineers across the SDLC, contributing to design, development.

Technical Projects

Med Sync - Medication Adherence & Health Compliance Platform

- Built a Spring Boot microservices system with JWT-secured authentication and REST APIs to manage hospital schedules and patient workflows.
- Enhanced system performance by 35% through service decomposition and CI/CD-enabled zero-downtime deployments.
- Implemented Apache Kafka–based event streaming for medication notifications, increasing responsiveness by 40%.
- Integrated application metrics and logs with Grafana dashboards observability and to monitor API latency, service health and event throughput in production.
- Containerized services using Docker and deployed on AWS (EC2, S3) to support scalability and production readiness.

Home Hub – Smart Home Management Platform

- Developed a distributed Spring Boot application using REST APIs, PostgreSQL, Kafka and API Gateway to manage shared household tasks and expenses.
- Used Kafka for real-time event propagation (task updates, household alerts), reducing API load by 30% and increasing data consistency. Grafana-based monitoring dashboards to track service performance, database latency, and message processing trends.
- Deployed services via Docker on AWS, enabling efficient resource scaling and boosted reliability across components.

FoodSeg103 Semantic Segmentation Benchmarking (master's Thesis)

- Conducted a comprehensive benchmarking of U-Net, DeepLabV3+, and SegFormer on the FoodSeg103 dataset with full training, validation and mIoU evaluation pipelines
- Improved model efficiency by optimizing preprocessing and augmentation workflows, earning a 4.0/4.0 grade and an invitation to publish at an Irish AI conference.

Education

University of Limerick, Ireland — *Sept 2024 – Aug 2025*
MSc in Artificial Intelligence and Machine Learning   QCA: 3.72/4.00
Modules: AI, Deep Learning, Data Pipelines, Reinforcement Learning

Rajalakshmi Institute of Technology, Chennai, India — *Aug 2018 – Jun 2022*
BE in Computer Science Engineering   GPA: 8.58/10

Technical Skills

Languages: Java, Python, JavaScript, Swift, C, C++, Bash, Linux

Frameworks: React, TailwindCSS, UIKit, Swift UI, Spring Boot, PyTorch, TensorFlow, CUDA, Combine, XCTest, XCUITest

Databases: MySQL, PostgreSQL, RedisDB

Big Data & Streaming: Apache Spark, Kafka, Airflow, CoreData, PostgreSQL, RedisDB

Cloud & DevOps: AWS (S3, Lambda, SageMaker), SPM, Cocoa pods, Docker, Git, Jenkins, Maven

Testing & Practices: JUnit, XCTest, XCUITest, Clean Code, OOP, SDLC, Agile/Scrum