SHAHEIN NOEL OCKERSZ

Software Engineer

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SUMMARY

Software Engineer specializing in enterprise web applications, microservices, and backend architecture using Java, Spring Boot, and React. Proven track record in architecting scalable solutions, leading cross-functional integrations, and optimizing cloud and database infrastructures to drive operational impact and continuous delivery.

PROFESSIONAL EXPERIENCE

Software Engineer / Lead Developer - ***Earthfoam Pvt Ltd.*** **Jan 2026 - Present**

- Architect and lead development of a high-throughput enterprise ERP platform using React, Spring Boot, NestJS, and Java across HR, manufacturing, and operations.
- Designed and deployed RESTful microservices and API gateways with Spring Security, connecting biometric time-tracking with automated payroll, cutting processing time by 70%.
- Engineered full-stack CRM applications using React and Spring Boot with external API integrations for sales tracking and email synchronization.
- Lead IoT integration workflows for real-time tracking and manufacturing automation via decoupled backend services.
- Oversee AWS infrastructure (EC2, RDS PostgreSQL, S3) and CI/CD pipelines, optimizing resources for a 25% cost reduction.
- Mentor engineers, enforce OOP/SOLID principles and TDD, and apply agentic AI workflows to boost delivery velocity.

Associate Software Engineer - ***Earthfoam Pvt Ltd.*** **Dec 2023 - Dec 2025**

- Built responsive web frontends with React alongside Java Spring Boot REST APIs for core operational workflows.
- Engineered cross-platform mobile tools in Flutter, accelerating field task execution by 35%.
- Optimized SQL queries and database schemas in PostgreSQL/MySQL, improving response times by 30%.
- Delivered full-stack web, mobile, and backend applications using Spring Boot, NestJS, React, Flutter, and Python.

Instructor - ***National Institute of Business Management*** **Jan 2023 - Dec 2023**

- Taught practical and theoretical software engineering modules, guiding students in programming and coursework.
- Supervised assessments and maintained computer laboratory systems and infrastructure.

EDUCATION

BSc (Hons) Computing - ***First-Class Honours*** **2023 - 2025**

- Coventry University, United Kingdom | Ranked second in graduating cohort

Higher National Diploma in Software Engineering **2022 - 2023**

- National Institute of Business Management, Sri Lanka | Merit (GPA: 3.79)

Diploma in Software Engineering **2021 - 2022**

- National Institute of Business Management, Sri Lanka | Distinction (GPA: 3.91)

TECHNICAL SKILLS

Backend & Architecture: Java, Spring Boot, Spring Security, REST APIs, Microservices, Node.js, NestJS, TypeScript, Python

Frontend & Mobile: React, JavaScript (ES6+), Redux, Flutter, Dart, HTML5, CSS3

Cloud, DevOps & Testing: AWS (EC2, S3, RDS), Docker, CI/CD, Git, Postman, Swagger/OpenAPI, Jest

Databases: PostgreSQL, MySQL, MongoDB, Spring Data JPA, Hibernate

Methodologies & Practices: Agile/Scrum, System Architecture, Code Review, Design Patterns, OOP, SOLID, TDD, Agentic AI Workflows

IoT & Integration: IoT, RFID, QR Systems

Additional: C#, .NET, ASP.NET Core, Requirements Analysis

PROJECTS

Enterprise Operations Platform - ***Spring Boot & React***

- Designed a modular enterprise operations platform using Spring Boot microservices and React dashboards with PostgreSQL and OAuth2, featuring real-time auditing and role-based access control.

Meet Buddy - ***AI Meeting Assistant***

- Built a Flutter-based cross-platform AI meeting assistant backed by FastAPI and PostgreSQL, leveraging Gemini on Vertex AI for real-time multilingual transcription, automated summarization, meeting minutes generation, and key decision tracking.

University Management System - ***Spring Boot, React & MongoDB***

- Developed a full-stack institutional management platform connecting a responsive React frontend with Java Spring Boot RESTful APIs and MongoDB persistent storage.

Graph Map & Routing Engine - ***Java, Dijkstra's Algorithm & Google Maps API***

- Engineered a graph-based shortest-path routing application in Java using Dijkstra's algorithm to compute optimal city routes with real-time Google Maps API visualization.

IoT Security & Monitoring System - ***C++, ESP32-CAM & Cloud Web UI***

- Built an end-to-end hardware-software security system integrating ESP32-CAM modules, motion detection sensors, cloud connectivity, real-time alerts, and a web monitoring dashboard.

EnviroLens (AI Waste Classification) - ***Swift, CoreML, Vision & MapKit***

- Developed a mobile machine-learning application using CoreML and Computer Vision for real-time waste classification, integrated with MapKit and CoreLocation for geolocation services.

REFERENCES AVAILABLE UPON REQUEST