

Robert Walsh

Software Engineer IE

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Summary:

Versatile Software Engineer with strong backend and platform experience in financial services. Proven track record of owning applications end-to-end, making architectural decisions, and influencing engineering standards across teams. Experienced in Java-centric microservice architectures, async and event-driven systems, and internal developer platforms. Recognized as a go-to SME, mentor, and pragmatic decision-maker who balances delivery speed with long-term maintainability.

CORE SKILLS:

Backend & Architecture: Java, Spring Boot, Microservices, REST APIs, Async Processing (CompletableFuture), Event-Driven Systems

Frontend (Supporting): React, TypeScript, Vite

Cloud & Platform: AWS, Azure, Docker, Kubernetes, API Gateways, Internal Developer Platforms

Quality & Security: Sonar, Black Duck, Automated Testing, Secure Coding Practices

Databases: PostgreSQL, MySQL, Oracle, MongoDB

Ways of Working: System Design, Code Reviews, Mentorship, Agile (Scrum), Cross-Team Collaboration

Experience:

Mastercard — Senior Software Engineer

May 2023 – Present

- First engineer and technical owner of an internal CFO Chatbot, defining service architecture, core code structure, and onboarding standards, including authoring a technical manifesto for new joiners.
- Took end-to-end ownership of a Profile Management & Onboarding system, designing validation flows, navigation logic, and core service architecture used across teams.
- Acted as a technical decision-maker, proposing pragmatic implementation approaches to balance delivery speed, demo impact, and long-term maintainability, and pushing back on unnecessary or over-engineered solutions.
- Recognized as a go-to SME for internal Mastercard platforms, including API Gateway, CaaS, SPM policies, and internal infrastructure tooling.
- Influenced architectural and design decisions adopted across multiple teams, contributing to shared patterns and best practices.
- Championed engineering quality and security, leading adoption and enforcement of Sonar and Black Duck, and driving consistency through rigorous PR reviews.
- Delivered end-of-sprint team demos and iteration-level stakeholder demos, translating technical progress into clear business value.
- Mentored interns and new engineers through delegation, weekly 1:1s, and structured knowledge-transfer sessions, supporting both technical growth and organizational onboarding.
- Participated in incident response activities, including log analysis, dependency tracing, and cross-team coordination to resolve service integration issues.
- Contributed to SOAR and TAD reviews, supporting security, architectural governance, and compliance requirements.
- Designed and maintained async, streaming-style, and event-driven backend systems, enabling progressive data delivery and notification services within a microservice ecosystem.

JP Morgan, Dublin — Software Engineer

June 2021 – April 2023

Joined as a Front-End Engineer, delivering user-facing features using TypeScript before transitioning into a broader full-stack role.

- Designed and implemented Java-based microservices, leveraging CompletableFuture and async patterns to improve scalability and responsiveness.
- Built and maintained secure REST APIs for financial data handling and frontend integration within a regulated environment.
- Contributed to code reviews, automated testing, and release quality, adhering to strict engineering and security standards.

EDUCATION

University of Limerick — BSc in Computer Science 2017-2021

AWS Software Engineer 2022

Azure Fundamentals 2024

ADDITIONAL INFORMATION

Personal projects applying LLMs and retrieval-based architectures (RAG) to backend systems and developer tooling, focusing on data ingestion, retrieval strategies, and practical system integration.