

Conor O'Hanlon - Software Engineer

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I am a product focused Software Engineer based in Toronto, ON. With experience in finance and automotive tech, I have contributed to and led projects at Monzo Bank and General Motors. My skill set includes Distributed Systems, Go, Java, Python, Javascript, Cassandra, NSQ, GraphQL, React, Kafka, SQL, Kubernetes, AWS and more.

Core Skills

- **Proficient:** Java, Spring Boot, Go, Python, Javascript, RESTful APIs, Kubernetes, AWS, RTOS (QNX), Cassandra, MongoDB, Docker, SQL, GraphQL, NSQ, Kafka
 - **Familiar With:** C, C++, C#, Scala
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Work Experience

Senior Software Engineer

Venn (formally Vault) | April 2025 - May 2026

- Led the implementation of Multi Factor Authentication (MFA) to enhance account security and protect customer funds.
- Designed and launched a new customer activation flow, allowing users to explore the platform, issue their first card, top up their account, and receive funds seamlessly.
- Developed flexible card spending controls, enabling administrators to issue company cards with granular restrictions based on merchant categories, limits, and usage rules.
- Led the development of apple pay integration across the platform.

Senior Software Engineer

Monzo Bank | November 2022 - February 2025

- Designed and implemented a new onboarding process for higher-risk customers, driving a 7% expansion in the active customer base while maintaining full regulatory compliance and effectively mitigating fraud risks.
- Redesigned the in-app fraud reporting process, resulting in a 25% reduction in complaints and a 33% decrease in investigation time.
- Developed an in-app card replacement feature that enabled users to instantly order a new card after reporting fraud, reducing downtime, cutting demand on operations by 60%, and improving customer retention rates.

Software Engineer

General Motors | July 2021 - November 2022

- Collaborated with a large team to develop an audio framework for in-car entertainment systems, leveraging Android, Java, C++, and QNX.
- Led the development of an application for in-car audio testing, allowing QA teams to safely capture logs while driving, reducing the need for two engineers to be present during tests.

Software Engineer

First Derivatives | June 2015 - July 2021

- Developed high-performance APIs in Java, C, and C++ to interface with a kdb+ big data solution, driving adoption of the database across multiple dev communities.
- Containerized a complex production and development environment using Docker, simplifying deployments across Unix systems and enabling developers to spin up new environments in minutes, reducing setup time from 7 hours to 5 minutes and significantly boosting developer velocity.

- Built an application to manage Ontario's power grid, directly used by real-time control room operators to monitor and control grid operations, ensuring reliable energy distribution and reducing manual intervention.
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Things I've Built & Shipped

[Clann - Private family photo app](#)

- Launched February 2026
- 240+ Daily active users
- 1,000+ Downloads
- 78 Paying Customers

[Squirrlo - A budget tracker app](#)

- Launched March 2026
- 800+ Downloads
- 30 Paying Customers

Education

Bachelor of Engineering - Computer Science (Hons)

The Queen's University Belfast | 2013 - 2017

Queen's University Kingston (Exchange) | 2016 - 2017