

Martin Allaire

Software Engineer

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Summary

Experienced Software Engineer with a strong background in backend software design and development. Skilled in project and team management, dedicated to fostering a positive work environment. I enjoy the full development life cycle, from concept to implementation, therefore I am happy as an individual contributor or leading a team.

Work

Finwello 

Director of Technology

(Sept. 2022 - Present)

- Strategically assembled a cross-functional development team (internal/outsourced) to deliver a cost-effective software product
- Successfully delivered the software product within budget and schedule constraints, from concept to market launch
- Supported sales efforts by engaging with prospective clients' technical teams to address technical, security, and integration issues
- Established performance metrics (SLAs, SLOs, SLIs) and implemented monitoring to ensure service quality
- Sole infrastructure/backend developer, designed and developed the infrastructure & backend code for all software features

Yoppworks 

Principal Consultant

(March 2022 - Sept. 2022)

- Developed a comprehensive GCP Landing Zone strategy for the government of Ontario
- Executed a complex lift-and-shift migration for one of Ontario's largest government departments, including networking reconfiguration for secure hybrid cloud operations
- Partnered with Google to install and configure specialized Oracle Server hardware, enabling the migration of a critical Oracle database to GCP
- Modernized legacy IBM WebSphere application suite for the same Ontario government department
- Worked with senior management to build out Yoppwork's cloud services practice
- Balanced client-facing responsibilities with hands-on software development, focusing on establishing effective work practices, regular check-ins, and knowledge transfer sessions

- Earned the title of Google's 'Public Sector Partner of the Year (Canada)' shortly after launching Yoppwork's cloud services

Team Lead

(Oct. 2020 - March 2022)

- Guided two cross-functional developer teams in building the GoSpaces product, emphasizing collective ownership to minimize meetings and foster team accountability and trust
- Advocated for and implemented domain-driven design and reactive architecture principles, ensuring team alignment with software design patterns and methodologies
- Balanced leadership duties with hands-on development work, focusing on backend design and implementation

Senior Software Engineer

(Aug. 2018 - Oct. 2020)

- Provided embedded consulting (Lightbend stack) for major US companies in a variety of sectors (telcom, banking, automotive), including Akka training
- Pivoted to product development on the GoSpaces incubator product, transforming it from a reference architecture to a full business suite aimed at managing corporate social responsibilities
- Presented at industry conferences, including a full-day workshop on 'Akka Streams' at Reactive Summit (2018) and a talk on 'The current state of gRPC as a gateway' at Reactive Horizons (2019)

Razorfish

Senior Software Engineer

(Mar. 2016 - Aug. 2018)

- Contributed to Walmart's re-platforming initiative, migrating payment and catalog features to Scala & Play! Framework, focused on reliability and scalability for private cloud (OneOps)
- Enhanced release processes, enabling weekly releases for increased stability and paving the way for continuous delivery
- Integrated Spark and Akka for high-throughput data processing during Walmart marketplace expansion, ensuring minimal downtime

Discoverly

Technology Partner

(Apr. 2014 - Apr. 2018)

- Led the development of a scalable, adaptable application for student program selection
- Collaborated with post-docs to design and validate a core recommendation algorithm
- Secured funding through grants and participated in accelerator programs (NextAI, Startup Garage)

Telus Health

Software Engineer

(Apr. 2014 - Mar. 2016)

- Focused on feature implementation for Telus Health's EMR product, PS Suite, enhancing product functionality and user experience
- Took on the role of build master, overseeing the build and release process for the software application

Expertise

Languages

- Scala/Java, TypeScript/JavaScript, Dart, Python

Major Frameworks

- Tapir, Vert.x, Cats, Akka, Spark, Flutter, React/Native, NextJS, NodeJS

Infrastructure

- GCP, AWS, Kubernetes, Docker
- Github Actions, Jenkins, TravisCI
- Major relational and non-relational databases

ML

- Model selection and performance evaluation
- Methods to optimize a model's objective function across dataset size, compute budget, and inference requirements
- Methods for training, tuning, inference, and deployment

Education

Algonquin College

Computer Science Technology, CSE
(2010-2014)

Certifications

- **École Polytechnique Fédérale de Lausanne on Coursera**, Functional Programming Principles in Scala (2017)
- **École Polytechnique Fédérale de Lausanne on Coursera**, Big Data Analysis with Scala and Spark (2017)
- **Lightbend**, [Certified Reactive Architect](#) (2018)
- **Lightbend**, [Accredited Trainer, Lightbend Akka for Scala - Professional](#) (2018)
- **Lightbend**, [Accredited Trainer, Lightbend Akka Streams for Scala - Professional](#) (2018)
- **Lightbend**, [Certified Reactive Operations](#) (2019)