

Professional Experience

Square

Senior Software Developer December 2024 - Present
Software Developer October 2022 - December 2024

- Building distributed systems for Square Loyalty using Java, Kotlin, gRPC, SQL, DynamoDB, GraphQL, SQS, and Kafka; developed frontend clients with Ember.js, React, and TypeScript.
- Led and architected a full rebuild of Square Loyalty's customer-facing web portal, laying the foundation for a centralized surface for customers to manage their relationship with a business.
- Led a revamp of the Square Loyalty onboarding flow, introducing personalized recommendations to streamline the process, resulting in a 15% boost in conversion rates as measured by A/B testing.
- Identified flaws in async flows that rendered ~116k loyalty accounts inaccessible to businesses. Advocated for and implemented solutions to recover them and prevent recurrence.

Akira

Technical Lead April 2021 - September 2022
Software Developer November 2018 - April 2021

- Led business-critical full-stack projects through refining requirements, system design, task definition, planning, code review and implementation for the company's patient-facing apps team.
- Developed multi-platform virtual healthcare applications using Typescript, React, Redux, Webpack, Ruby, and Grape.
- Built a SaaS virtual appointment solution in response to COVID-19, allowing clinics to move their daily operations online. Received the company's *Leadership Values in Practice Award* for taking the project from idea to clinical use in under 2 months.
- Contributed to rebuild of patient onboarding flow to support complex eligibility criteria, improving patient experience and reducing load on customer support during the onboarding of hundreds of thousands of users.
- Designed and implemented an email templating microservice enabling flexible branding, multilingual content, and failover across courier APIs, using TypeScript, Node.js, Fastify, and Nunjucks.

Konrad Group

Software Developer May 2018 - November 2018
Software Developer Intern January 2017 - August 2017

- Built full-stack internal tools for time off management, time tracking, and employee directories using React, Redux, Node.js, Express, and C#.

CIBC Live Labs

Innovation Engineering Intern May 2016 - December 2016

- Prototyped a redesigned Android banking app and a bill splitting tool using Java, Python, and Firebase.

McMaster University

Teaching Assistant September 2015 - April 2016

- Authored instructional materials to teach students programming fundamentals.
- Reviewed 100s of Python and Java programming assignments for multiple Computer Science courses.

Pulse Microsystems

IT Assistant May 2015 - August 2015

- Rewrote a legacy web application to improve maintainability and mobile responsiveness.

Education

Bachelor of Engineering (2013-2018),
Software Engineering, McMaster University

Skill Summary

Proficient with

- *Backend Development:* Java, Kotlin, Ruby, Node.js, Express, Fastify, NestJS, gRPC, SQL, DynamoDB, GraphQL, SQS, and Kafka.
- *Frontend Development:* TypeScript/JavaScript, HTML, CSS/SCSS, React, Redux, Ember.js, and jQuery.
- Git, GitHub Actions

Experience with

- *Mobile:* Android, and iOS with Swift.
- *Other Languages:* Python, and C#.

Projects

MOTY - [manageroftheyear.me](#):

Since 2017 I've been obsessively following a competitive movie trivia show. One thing myself and others have taken to doing is participating in yearly fantasy leagues for this show, complete with drafts of competitors. In the past, these have usually been run by hand, which really isn't my style. So I built a web app to organize and automate these fantasy leagues and now have about 100 users. It's a responsive site built with TypeScript, Node.js, NestJS, PostgreSQL with TypeORM, React, Webpack, HTML, and SCSS.

MacCoin - [maccoin.jkJones.me](#):

Every year, graduating McMaster engineering students build elaborate farewell pranks. In 2018 at what seemed like the height of novelty cryptocurrencies, I built the frontend for MacCoin with React, HTML, and SCSS. 2,712 unique wallets would be created and 840 transactions processed in the following 2 days.

Open Source - [github.com/JemarJones](#):

Whenever something is missing from a piece of open source software that I'm relying on, I like to help fix those problems. In the past this has led me to being a maintainer of [jQuery.Flip](#), and to contributing to projects like Airbnb's react-dates library, among others.