

# Jemar Jones

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## Professional Experience

### Square

Software Developer

October 2022 - Present

- Contributing to the Square Loyalty product, building distributed systems using Java, gRPC, SQL, DynamoDB, SQS, and Kafka. Additionally, developing frontend clients with Ember.js, and Typescript.
- Led a revamp of the Square Loyalty onboarding flow, introducing personalized recommendations and reward suggestions to streamline the process, resulting in a statistically significant 15% increase in conversion rates measured by A/B test.
- Identified flaws in asynchronous flows which had rendered ~116k loyalty accounts inaccessible to businesses. Advocated for and implemented solutions to recover these accounts and prevent further instances.

### Akira

Technical Lead

April 2021 - September 2022

Software Developer

November 2018 - April 2021

- Led major projects through refining requirements with product owners, full-stack system design, task definition, sprint planning, code review and implementation for the company's patient-facing applications team.
- Worked on a suite of 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 a rebuild of the patient onboarding system, adding support for complex eligibility criteria. Improving patient experience and reducing load on customer support during the onboarding of hundreds of thousands of users.
- Increased fault tolerance in the delivery of critical emails by creating an email templating microservice supporting hot-swapping of email courier APIs. This included designing a system to allow generation of emails with varying branding, messaging, and internationalization using Typescript, Node.js, Fastify, and Nunjucks.

### Konrad Group

Software Developer

May 2018 - November 2018

Software Developer Intern

January 2017 - August 2017

- Created full-stack web applications for managing employee time off, project time tracking, and the company directory.
- Developed features for client projects using React, Redux, Webpack, Node.js, Express, and C#.
- Developed prototypes to close large clients under tight request-for-proposal deadlines.

### CIBC Live Labs

Innovation Engineering Intern

May 2016 - December 2016

- Developed prototypes of a redesigned banking app and a bill splitting tool using Android, Firebase, Spring MVC, and Python.

### McMaster University

Teaching Assistant

September 2015 - April 2016

- Reviewed 100s of Python and Java programming assignments for multiple courses.
- Created instructional materials to introduce programming fundamentals to software engineering students.

### Pulse Microsystems

IT Assistant

May 2015 - August 2015

- Rewrote a legacy web app to be more maintainable and mobile responsive.

## Education

### Bachelor of Engineering (2013-2018),

Software Engineering (Co-op), McMaster University, 3.19/4.00 Equivalent GPA

## Skill Summary

### Proficient with

- Frontend Web*: Modern JavaScript/Typescript, HTML, CSS/SCSS, React, Redux, Webpack, and Ember.js.
- Backend*: Java, Ruby with Grape, Node.js, Express, Fastify, NestJS, gRPC, SQL, DynamoDB, SQS, and Kafka.
- Development Practices*: Git, Code Review, and Agile/Scrum.

### Experience with

- Build/Workflow Automation*: Github Actions, Gradle, and Grunt
- Mobile*: Android, and iOS with Swift.
- Other Technologies*: Python, C#, Spring MVC, and jQuery.

## Projects

### MOTY - <https://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, TypeORM, PostgreSQL, React, Webpack, HTML, and SCSS.

### MacCoin - <http://maccoin.jkjonas.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 -

<https://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 (<https://github.com/nnattawat/flip>), and to contributing to projects like Airbnb's react-dates library, among others.