

# JAMES HAGEMAN

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Software Engineering | University of Waterloo | [github.com/JamesHageman](https://github.com/JamesHageman)

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## SUMMARY OF QUALIFICATIONS

- Production deployment, automation, and monitoring with Kubernetes, Docker, AWS, CI and Datadog
- Frontend engineering in JavaScript with React, Redux, AngularJS, Test-Driven Development
- Backend development with Ruby on Rails, Node.js, PHP, SQL, Websockets, Elasticsearch and Kafka

## PROFESSIONAL EXPERIENCE

**Shopify** Production Engineering Intern, Waterloo ON Fall 2017

- Implemented DNS-based failover for Elasticsearch clusters, reducing incident response time
- Refactored Elasticsearch indexing to be interruptible and resilient, unblocking our product teams
- Architected a zero downtime Elasticsearch version upgrade using multiple clusters and CI pipelines
- Built a safe topic deletion mechanism for Kafka, allowing teams to iterate without risking data loss

**Shopify** Developer Intern, Waterloo ON Winter 2017

- Shipped merchant-facing error reporting for Shopify Scripts using Ruby, Kafka, Sentry, and React, increasing merchant trust and decreasing support load from broken scripts
- Streamlined customer migrations to Shopify Plus by developing the Bulk Customer Invites app
- Deployed and monitored new production services with Kubernetes, CI, and Datadog

**Rangle.io** JavaScript Developer, Toronto ON Summer 2016

- Developed the new e-commerce platform for Aldo Shoes with React, Redux, Redux-Saga, Ramda and functional programming to make the frontend code modular, scalable and fast
- Increased SEO and time-to-interaction by rendering the React app on the server side in Node.js
- Synchronized between 5 remote teams in an agile process delivering working software every week
- Reduced bugs by maintaining 80% unit test coverage with Mocha, Enzyme and CircleCI

**Innovasium Digital** Full Stack Web Developer, Markham ON Summers 2012 - 2015

- Migrated legacy CMS platform to Docker using AWS ECS for deployment and CircleCI for automation
- Taught new co-op students React, Redux and Rails in multiple onboarding sessions
- Built a modern web application for client with PHP, AngularJS and SQL that manages the submission, review and approval process for ~8000 advertising submissions/year for pharmaceutical industry
- Improved clients' daily workflow by implementing real-time collaborative PDF annotation system with React, Node.js and Websockets with Socket.io
- Rebuilt the frontend of a clients' legacy system as a React app with to improve architecture and speed

## EDUCATION

**Candidate for Bachelor of Software Engineering - University of Waterloo** 2015 - 2020

- President's Scholarship of Distinction for entrance average above 95%
- Dean's Honour List and the top decile in 1A

## PROGRAMMING SKILLS

**Languages:** Ruby, JavaScript, SQL, PHP, Bash, Elm, Haskell, C++

**Technologies:** Docker, Rails, React, Elasticsearch, Kafka, AWS, Kubernetes, Datadog, Node.js, Sentry

## INTERESTS

- Performing music: jazz/blues guitar, vocals, piano
- Recreational sports: skiing, cycling, hiking