

JAMES HAGEMAN

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Software Engineering | University of Waterloo | 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 September 2017 - December 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 January 2017 - April 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 Ontario May 2016 - August 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 Ontario 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