Shane **Hickman**

3B SOFTWARE ENGINEERING · UNIVERSITY OF WATERLOO

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Skills

Languages	Java, Rust, Go, Kotlin, C, C++, C#, Scala, PHP, JavaScript
Technologies	MySQL, MongoDB, REST, Hibernate, Spring, JUnit, JWT, SocketIO, NGINX, MVC, Unity3D, JQuery
DevOps	AWS, Ansible, gh-ost, Docker, Prometheus, Datadog, Git, Gradle, UNIX, JWT

Experience

YugaByte *Sunnyvale CA, USA*
SOFTWARE ENGINEER INTERN *May - Aug 2019*

- TODO

Faire *Kitchener ON, Canada*
BACKEND DEVELOPER INTERN *Sept - Dec 2018*

- Architected an inter-server event framework using Amazon Kinesis and Protocol Buffers.
- Implemented several complex email cadences to promote and notify users of new features, with visualized A/B tests for subject lines and content.
- Designed and implemented APIs to support offline ordering, retailer-to-maker referrals, and out-of-stock products, contributing to user acquisition and an overall increase in sales.
- Added web-hooks to push logged errors into Redshift, supporting morecomplex error analysis.
- Mentored and on-boarded new backend developers as the team nearly doubled in size.
- Integrated code coverage tracking into TravisCI to motivate better testing practices.

Spatial *New York NY, USA*
SOFTWARE DEVELOPER INTERN *Jan - April 2018*

- Proposed and implemented a scalable and load-balanced backend architecture for user-management, real-time messaging, and data synchronization on AWS, written in Go.
- Introduced stateless authentication and role-based authorization mechanism using JSON Web Tokens.
- Developed platform agnostic .NET web socket and http implementations for multi-threaded API clients.
- Added DevOps functionality through role-based authorization, metrics (Prometheus + Grafana), and deployment scripts for all servers (Ansible).

Miovision *Kitchener ON, Canada*
SOFTWARE DEVELOPER INTERN *May - Aug 2017*

- Independently wrote a performant API to export large amounts of data from Hibernate to AWS.
- Refactored the data extraction workflow to parallelize tasks, increase accuracy, and pave the way for future cost savings initiatives.
- Deployedmetrics agents to monitor download speeds and cache performance of satellite servers.

Projects

dead-drop *Golang*
SECURE NONCE FILE TRANSFERS IN THE CLOUD *May 2019 - present*

- TODO

padd *Rust*
FAST AND AUTOMATIC FORMATTER OF CONTEXT-FREE LANGUAGES *March 2016 - present*

- TODO

Education

University of Waterloo · 94.24 Cumulative GPA *Waterloo ON, Canada*
CANDIDATE FOR BACHELOR OF SOFTWARE ENGINEERING *Sept 2016 - April 2021*

E.L. Crossley Secondary School · 98.5 Cumulative GPA *Fonthill ON, Canada*
ONTARIO SECONDARY SCHOOL GRADUATION DIPLOMA *Sept 2012 - June 2016*