

Shane Hickman

3B SOFTWARE ENGINEERING · UNIVERSITY OF WATERLOO

☎ +1 (226) 792-4763 | ✉ srhickma@edu.uwaterloo.ca | 🏠 srhickma.dev | 📱 srhickma

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 more complex 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.
- Deployed metrics 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

Honors & Awards

1A - 3A	Dean's Honours List , University of Waterloo	Waterloo ON, Canada
2019	President's International Experience Award , University of Waterloo	Waterloo ON, Canada
2017	President's Scholarship of Distinction , University of Waterloo	Waterloo ON, Canada
2016	Nominee , Schulich Leader Scholarship	Canada
2016	3rd Place , Regional ECOO Programming Competition	Niagara ON, Canada
2015	2nd Place , Regional ECOO Programming Competition	Niagara ON, Canada
2014	2nd Place , Regional ECOO Programming Competition	Niagara ON, Canada
2012	Gold Medal , Canada-Wide Science Fair	Charlottetown PEI, Canada
2012	Junior Innovation Award , Canada-Wide Science Fair	Charlottetown PEI, Canada
2012	Western University Scholarship , Canada-Wide Science Fair	Charlottetown PEI, Canada
2012	Gold Medal , Niagara Regional Science and Engineering Fair	Niagara ON, Canada
2011	Gold Medal , Niagara Regional Science and Engineering Fair	Niagara ON, Canada

Volunteering

Tutor

Fonthill ON, Canada

E.L. CROSSLEY SECONDARY SCHOOL GUIDANCE DEPARTMENT

Fall 2014 - June 2016

- Tutored grade 9, 10, 11, and 12 students in math, science, and computer science courses.

Camp Volunteer

St. Catharines ON, Canada

YOUTH UNIVERSITY & NIAGARA REGIONAL SCIENCE AND ENGINEERING OUTREACH CAMPS

July 2012 and 2013

- Collaborated with camp directors in presenting programs.
- Mentored and encouraged camp participants.