Henry Zimmerman

Contact Information

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Objective

I currently am looking for a Software Engineering Internship or Co-Op for the Spring and Summer of 2018. I have experience in frontend and backend web development as well as some Java experience. I am also interested in becoming proficient in developing performance-critical applications, and would be enthused to work in a modern C++ codebase.

Education

Current	**The Rochester Institute of Technology**, Rochester, NY Currently enrolled in the Software Engineering Program. Expected Graduation: Spring 2019

Work Experience

Ocient: August 2016-Jan 2017, May 2017-Aug 2017

xgHealth:	Implemented a tool in C++ 11 that would read the current state of a distributed database via Protobuf and either output CSV or display the system health in a TUI. This tool allowed other developers to assess the effects of their changes on the system in real time, increasing the velocity of development.
xgWebui:	Assisted development of a webapp written using Angular 2, Typescript, and Node.js that facilitated configuration and management of a custom distributed database system. I worked on both the frontend and backend, implementing numerous components, serializing to and from Protobuf and JSON, writing tests, and fixing bugs. I was directly responsible for implementing pages that facilitated adding nodes to the system as well as configuring machine learning algorithms to run on clusters.

Personal and Academic Projects

Cirqa:	Programmed a patent-pending radial keyboard designed to work on circular Android Wear devices.
SemaPhoreBetterOrWorse:	Collaborated on an Android keyboard that inserted characters corresponding to semaphore flag positions given by two Microsoft Band 2s as part of the BadHacks hackathon hosted at Northwestern University.
HLWNPA:	I wrote an interpreted expression based programming language using Rust and its parser combinator library Nom. I undertook this project to fill in gaps in my CS knowledge not covered in the SE program.
HealthNet:	Designed and implemented portions of a mock hospital appointment tracking web application written in Python using the Django Framework as part of a group project in RIT's Intro To Software Engineering class.
FPTS:	(Financial Portfolios Tracking System) Programmed the majority of a mock equity tracking and trading system written in Java as part of a group project in RIT's Engineering of Software Subsystems class.
More:	I have additional personal projects, in various stages of completion, available for viewing on Github.

Programming Skills

Basic Knowledge:	C, C++11, Python, Django Framework, Protobuf, Bash, React.js
Intermediate Knowledge:	Java, Android framework, Html/Css, Node.js, LaTeX, Git, Github, Docker, Linux and Unix-like systems
Experienced:	Typescript, Angular Framework, Rust