Henry Zimmerman

CONTACT INFORMATION

PHONE:	+1 847 287 1920
EMAIL:	hgz1374@rit.edu

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, as well as to gain experience in writing really fast code.
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