

James Rolfe

Software Engineer

@ jamesnrolfe@gmail.com

+1 785 207 7126

jnrolfe.github.io

Providence, RI

EXPERIENCE

Maps Services Intern

Apple

Summer 2019

Sunnyvale, CA

Lead developer of a web-app to orchestrate code promotion from development to production environments.

Maps Services Intern

Apple

Summer 2019

Sunnyvale, CA

Lead developer of a software-suite to filter noise and surface errors in logs across a parallelized computing architecture.

Co-Founder & Lead Developer

GREYRALLY

Spring 2017 to Current Day

Sunnyvale, CA

Overseeing development of a web-based marketplace to anonymously sell, buy, and rate zero-day exploits.

Software Engineer Intern

PatternEx

Summer 2016

San Jose, CA

Created a data pipeline that automatically gathers and cleans network data from remote client databases.

PROJECTS

Swarm Robots

Fall 2019

Project lead for a swarm of 3 custom-built RaspberryPi RC cars that follow a leader car while avoiding collisions. The swarm is fault-tolerant in that a dead leader will result in a new leader via an election.

Medical Record Management System

Fall 2019

Developed infrastructure to secure distributed records. The system uses a blockchain to tie encrypted records to accounts used by hospitals. This allows for quick, tamper-proof record transfers between hospitals.

PuddleStore

Spring 2019

Wrote a distributed, decentralized, and replicated data storage system using RAFT semantics written in Go with custom Google protobufs.

Handheld Gaming PC Prototype

Spring 2018

Built and programmed a handheld gaming system using a 3D printed shell, screen and buttons from adafruit, and a RaspberryPi.

ABOUT

I am searching for a full-time position starting June 2020.

My preference is for a full-stack or backend position with a fast-paced, friendly team where I can grow as a developer.

EDUCATION

M.Sc. in Computer Science

Brown University

Sep 2018 to May 2020

Concentration in systems

B.Sc. in Computer Engineering

University of Kansas

Sep 2013 to May 2018

Double major in mathematics

Study Abroad

University of Hong Kong

Sep 2015 to Jan 2016

CompSci student group presenter

SKILLS

Programming Languages

Python C++ Go LaTeX
HTML & CSS & js Ruby bash

Web Frameworks

Ruby on Rails Django NodeJS

Databases

PostgreSQL MySQL MongoDB
Cassandra SQLite

Deployment Tools

Docker & Kubernetes Git Jenkins
AWS EC2 & S3 & Lambda Puppet

Misc

Unix VMware