

# JAMES ROLFE

+1 785 207 7126 | JAMESNROLFE@GMAIL.COM | PROVIDENCE, RI

## SKILLS

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### LANGUAGES

Python, Go, C++,  $\text{\LaTeX}$

### WEB FRAMEWORKS

Ruby on Rails, NodeJS

### INFRASTRUCTURE TOOLS

Docker, Kubernetes, AWS

### DATA SCIENCE TOOLS

sklearn, pyspark, pandas, numpy

## EXPERIENCE

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### APPLE INC. | MAPS SERVICES INTERN

SUNNYVALE, CA | SUMMER 2019

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

### APPLE INC. | MAPS SERVICES INTERN

SUNNYVALE, CA | SUMMER 2018

Wrote software-suite to filter noise and surface errors in logs across a parallelized computing pool

### GREYRALLY | CO-FOUNDER

SUNNYVALE, CA | SPRING 2017 TO CURRENT

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

### KU ITTC – RESILINETs | RESEARCHER

LAWRENCE, KS | SUMMER 2017

Developed network response simulator to quantify resilience of networks during attacks and disasters

### PATTERNEX | SOFTWARE ENGINEERING INTERN

SAN JOSE, CA | SUMMER 2016

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

## PROJECTS

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### SWARM ROBOTS

CURRENT

Leading development of RC car swarm using Raspberry Pis running OpenCV with Raft semantics

### PUDDLESTORE

SPRING 2019

Implemented a distributed file system in Go using custom Raft and Tapestry semantics

### IoT ZIGBEE ATTACKS

SPRING 2018

Showcased MitM attacks over ZigBee using a Raven USB, RaspberryPi, Arduinos, and XBee radio modules

### LANGUAGE DEVELOPMENT RESEARCH

SUMMER 2017

Classified language acquisition in children using multilayer network metrics with a SVM model

## EDUCATION

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### BROWN UNIVERSITY | Sc.M. COMPUTER SCIENCE

MAY 2020

Systems and Security concentrations

### UNIVERSITY OF KANSAS | B.S. COMPUTER ENGINEERING

MAY 2018

Mathematics minor

### UNIVERSITY OF HONG KONG | STUDY ABROAD

FALL 2015

Presented on meta-character injection attacks to the CompSci student group