

JAMES ROLFE

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SKILLS

LANGUAGES

Python, Go, C++, \LaTeX

WEB FRAMEWORKS

Ruby on Rails, NodeJS

INFRASTRUCTURE TOOLS

Docker, Kubernetes, AWS

DATA SCIENCE TOOLS

sklearn, pyspark, pandas, numpy

EXPERIENCE

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

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

BROWN UNIVERSITY | Sc.M. COMPUTER SCIENCE

MAY 2020

Systems and Security concentrations

UNIVERSITY OF KANSAS | B.S. COMPUTER ENGINEERING

MAY 2018

Focusing on Embedded Systems, Machine Learning, and Security

UNIVERSITY OF HONG KONG | STUDY ABROAD

FALL 2015

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