

# KEVIN CRUM

(209) · 840 · 8444 ◇ kevin.crum.code@gmail.com

github.com/KevinBaileyCrum

linkedin.com/in/kevin-crum-a2aa11199/ ◇ angel.co/kevin-bailey-crum

## EDUCATION

---

**University of California, Santa Cruz**

B.S. in Computer Science

*December 2018*

## PROJECTS

---

### **Spray Project**

github.com/kevinbaileycrum/spray\_project

*Express, React, Ionic, MongoDB Web Application*

*November 2019 - April 2020*

- Fullstack single page application that extends functionality of a popular site to allow for adding friends and providing a newsfeed of friends' activity
- Chained series of 3rd party API calls to construct *tick* object which formed the basis for entries in news feed
- Speed up response time by splitting slow async requests by protected API calls made by backend and public calls by frontend

### **Distributed Key-Value Store**

School Project

*Python Tornado Server*

*October 2018 - December 2018*

- Worked in a team of 3 to build an API for a distributed, fault-tolerant, available, sharded key-value database store
- Used Docker to simulate multiple machines and built unit tests that would take-down/start-up multiple nodes to test our KVS
- Worked on endpoints that involved node-to-node communication such as updating node's list of known machines, forwarding requests for data belonging to another shard, handling vector clocks etc.
- Built using python's Tornado framework for assistance in running async requests and used http requests for client to server and server to server communication

## EMPLOYMENT

---

### **Residential Network Technician**

University California Santa Cruz

*March 2016 - December 2018*

- Tech-support for residents on campus. Acted as the liaison between network execs and the clients
- Ran tests on network prior to network overhauls to ensure network would remain healthy once new features were added
- worked within ticket system working closely with my department as well as escalating to other departments
- Published documentation for procedures both inhouse and campus wide
- Troubleshoot networking issues for clients and network technicians
- Repaired clients devices in person / over phone

## TECHNICAL STRENGTHS

---

### **Computer Languages**

Python, Javascript, C++

### **Tools**

Vim, Git, Command Line, Docker