

SOHAN SUBHASH

(858) 776-1577 • sohan@berkeley.edu • subhash.co • linkedin.com/in/sohansubhash • github.com/sohansubhash

EXPERIENCE

802 Secure

Berkeley, CA

Software Engineering Intern

June 2017 – August 2017

- Designed and implemented a Wi-Fi interrogator for embedded *Linux* sensors to detect malicious access points and extract 802.1x certificate data with *PyShark*
- Scripted with *Scapy* the reporting of BroadPWN (CVE-2017-9417) access points to protect vulnerable devices
- Developed QA testing tools in Python to create string permutations for the auto detection of impostor SSIDs
- Monitored thousands of suspicious actions at DEFCON 2017 through packet analysis and Wi-Fi Interrogator Environment: *Python, Bash Script, Ubuntu core (embedded Linux), Wireshark/PyShark, Scapy*

Knight Cognitive Neuroscience Lab

Berkeley, CA

Database Consultant

March 2017 – April 2017

- Reconfigured the lab's *PostgreSQL* database and *Solr* search platform to expedite the migration to *RHEL 6*
- Collaborated with the Berkeley Unix team to migrate the lab's *Django* website to a newer host.

Environment: *Red Hat Enterprise Linux 6, Django, Bash Script, Apache Solr, PostgreSQL*

Make Change Count for Schools

San Diego, CA

Founder

August 2013 – Present

- Established a nonprofit organization that reworked donation infrastructure for local schools
- Coordinated between the school and district administration to install repurposed smart parking meters, which allow community members to donate using credit cards and mobile devices
- Trained and led a team of 7 to continue the addition of new donation meters to over 8 new schools

Gap Intelligence

San Diego, CA

Software Developer Intern

July 2015 – August 2015

- Developed the analytics database web app using in Ruby on Rails and *PostgreSQL*
- Collaborated with the web design team to restructure the UI using *Bootstrap* and *BEM CSS*

Environment: *PostgreSQL, Ruby on Rails, Bootstrap*

EDUCATION

University of California, Berkeley

Berkeley, CA

B.A. Computer Science

May 2020

Course Work: *Data Structures • Computer Architecture and Machine Structures • Discrete Math • Linear Algebra • Computer Security • Operating Systems and System Programming*

PROJECTS

Browser Start page: Responsive web app to replace the default new tab page. Uses JavaScript to implement powerful commands and searching across websites. Has a working autocomplete for common commands/URLs.

Twitter Sentiment Analysis Bot: Bot that rates the sentiment of a user's tweet. Uses MongoDB to manage and query user data received from the Twitter API and NLTK Python natural language processing module.

Mozilla Design Sprint Winner: Designed a new browser onboarding experience for individuals with disabilities to easily set customized disabilities features and add-ons. [1 of 5 finalists](#)

TECHNICAL SKILLS

Proficient: *UNIX, Python, Java, SQL, Bash, C, RISC V, PostgreSQL, AWS, Google Cloud Platform, WireShark*

Familiar With: *JavaScript, Swift, Ruby, Ruby on Rails, Flask*