

SOHAN SUBHASH

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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 generate 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. Candidate: *Computer Science*

May 2020

Major GPA: 3.3/4.0

Course Work: *Data Structures • Computer Architecture and Machine Structures • Discrete Math • Linear Algebra*

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: Program that rates the sentiment of each user's Tweet. Uses *MongoDB* to manage and query user data received from the *Twitter API* and *NLTK Python* natural language processing module to rate the sentiment of a Tweet.

TECHNICAL SKILLS

Proficient: *UNIX, Python, Java, SQL, Bash, C, RISC V*

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