# 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*