

# SOHAN SUBHASH

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## EXPERIENCE

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### 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 and reporting 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*

### Knights 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

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### 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

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### Browser Start page

August 2017

Responsive web app to replace the default new tab page. Uses pure JavaScript to implement powerful commands and search across websites like Reddit, YouTube, Facebook. Has a working autocomplete to parse and autofill common commands/URLs.

### Twitter Sentiment Analysis Bot

November 2016

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. Built during Cal Hacks.

## TECHNICAL SKILLS

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Proficient: *Python, Java, SQL, Bash, JavaScript*

Familiar With: *C, Swift, Ruby, Ruby on Rails, Flask, Django*