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 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 *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 searches 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 accessibility features and add-ons. 1 of 5 finalists

TECHNICAL SKILLS

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

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