SOHAN SUBHASH

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EXPERIENCE

Wind River (Intel) — **Alameda, CA**
Software Engineering Intern — *June 2018 – Present*

- Designed Docker containers for the SParts (Software Parts) Project. Also, created the documentation website

Environment*: Python, Flask, Docker, AWS, Ubuntu Server*

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 tools to monitor suspicious devices (i.e. auto detection of impostor SSIDs) at DEFCON 2017

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 and website for the migration to *RHEL6*

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*
Data Structures • Computer Architecture • Discrete Math • Linear Algebra • Computer Security • Operating Systems

PROJECTS

Voyager new tab: Firefox and Chrome extension to replace the default new tab page. Uses a JavaScript parser to implement powerful commands and searches across websites. And also displays a grid of favorite websites.
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 of the design sprint

TECHNICAL SKILLS

Proficient*: Python, Java, C, SQL, Bash, Docker, Unix/Linux, Flask, AWS, WireShark*

Familiar With*: JavaScript, Swift, Ruby, Ruby on Rails, RISC V, Google Cloud Platform*