

SOHAN SUBHASH

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EXPERIENCE

Wind River

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*