

# SOHAN SUBHASH

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## EXPERIENCE

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

- Contributed to the open source SPARTS project, a tool to track software components used in a software supply chain, by creating new transaction families with the *Sawtooth Ledger SDK* to extend the SPARTS RESTful API
  - Streamlined the SPARTS project development pipeline by building various *Docker* containers and a documentation website to expedite internal development and ease future scaling
  - Improved accessibility of SPARTS by writing uncomplicated user and developer guides to increase adoption
- Environment: *Python, Flask, Docker, AWS, Ubuntu Server, Hyperledger Sawtooth Ledger SDK*

**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

## EDUCATION

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**University of California, Berkeley** **Berkeley, CA**  
*B.A. Computer Science* *May 2020*  
*Data Structures • Computer Architecture • Discrete Math • Linear Algebra • Computer Security • Artificial Intelligence*

## PROJECTS

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**Voyager new tab:** Firefox/Chrome extension to replace the default new tab page. Uses a custom JavaScript parser to search websites directly, add shortcut keys, complete url paths. 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

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

Familiar With: *JavaScript, Swift, Ruby, RISC V, Google Cloud Platform, R, Pandas*