

SNEHEIL SAXENA

+1 858-349-6808 | snsaxena@ucsd.edu | sneheilsaxena.github.io | GitHub: sneheilsaxena | linkedin.com/in/sneheilsaxena

EDUCATION

University of California, San Diego

La Jolla, CA

BS in Mathematics & Computer Science, Provost's Honors (Fall '18), Major GPA: 3.35

Expected: June 2020

WORK EXPERIENCE

Software Engineer Intern, *Housecall Pro*, San Diego, CA

June – Aug 2019

- Implemented design enhancements to the website template for home service businesses as part of the “Website Builder” team using **React** and **Material UI**
- Utilized **Redux** for client-side state management and form validation leading to improved performance by reducing unnecessary communication between the client and server
- Created server endpoints to perform CRUD actions for different classes and their attributes in **Ruby on Rails** and implemented functional tests with **RSpec**

Software Engineer in Test Intern, *Reliance Jio Infocomm Ltd.*, Frisco, TX

July – Sept 2017

- Developed and implemented extensive **black-box test suite** for the KaiOS operating system on Jio Phone using **Python** scripts via an **automated test framework**
- Collaborated with an offshore QA team, collecting feedback on generated reports

EXTRACURRICULARS & AWARDS

Sponsorship Lead, Triton Engineering Student Council, UC San Diego

May 2019 – Present

- Leading the sponsorship team at TESC, a student-org. under the Jacobs School of Engineering to raise funds for events like **SD Hacks** (UCSD's hackathon) with 750+ attendees every year and Decaf, the winter **engineering career fair**

2nd Prize, HackIoT 2018, University of Southern California, LA

March 2018

- Worked in a team of 4 (out of 25 teams) on HomeSafeHome, a **home monitoring system** which maintains **logs of access attempts** by unknown entities at the door (unrecognized faces in camera feed) and windows (via sensors) using a **Django server** set up on a **Raspberry Pi**. Server front-end displays this information and **camera livestream**

SELECTED PROJECTS

Recurrent Neural Network for Language Identification

Sept – Dec 2018

- Built and trained a character level RNN to classify what language a word is in with **~80% accuracy** for 5 languages
- Used **PyTorch** and parsed corpora using Regex; ran each letter of a specific word through the RNN sequentially and then calculated the loss based on the final output

SmartUnlock, IEEE Club Quarterly Project, UC San Diego

April – July 2018

- Worked in a team of 3 to design and implement a system that **unlocks the deadbolt** on a door based on a **two-step authentication** process: **facial recognition** and **SMS**
- SMS sent to mobile device via Django server on a Raspberry Pi after a recognized face is detected by the camera. Door is unlocked via a torque motor when user replies with the correct password

LANGUAGES & FRAMEWORKS

Proficient: C++, C, Java, Python, R; **Familiar:** JavaScript, HTML, CSS, Ruby, MySQL, MATLAB

Frameworks: Git, React, Bash/Unix shell, vim, GDB, Valgrind, Eclipse, PyTorch, Redux, RSpec