SNEHEIL SAXENA

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EDUCATION

University of California, San Diego

La Jolla, CA

BS in Mathematics & Computer Science, Provost's Honors (FA'18, WI'20, SP'20), Major GPA: 3.4 Expected: Dec 2020

LANGUAGES AND FRAMEWORKS

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

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

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 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 - Nov 2019

• Lead 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, HackloT 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 the 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