

# NAVID SHAMSZADEH

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## EDUCATION

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**University of California Santa Barbara: 3.38 GPA**

September 2015 - 2020

Major in Computer Science

Major in Mathematics

## TECHNICAL STRENGTHS

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**Programming Languages** C, C++, Python, Mips ISA, Bash, Java, Javascript

**Software & Tools** L<sup>A</sup>T<sub>E</sub>X, Unix/Linux, Docker, MPI, OpenMP, CUDA, Numpy, Scipy, Vivado, Git, Postgresql, OpenCV

**Web Related** HTML, CSS, React, Bootstrap, Flask, AWS, Heroku, Nginx

## EXPERIENCE

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**HRL Laboratories**

June 2020 - September 2020

*Artificial Intelligence Engineering Internship*

- Prototyped an automated data generation and testing/evaluation system using CARLA vehicle simulator.
- Data generation automation using bash scripts and Open Message Massing Interface (OpenMPI) in C.
- Wrote data handler component to package and move data from distributed compute nodes and their individual local storage to a global storage area.
- Wrote launch and node/simulation runner components to specify parameter sets and appropriate numbers of simulation data generators per compute node on a cluster.
- Automation work streamlined team's research on machine learning and self driving cars.

**UC Santa Barbara: META Lab**

July 2019 - September 2019

*Psychology Lab Research Assistant*

- Implemented eye tracking camera software for counting number of test subject blinks.
- Implemented mixed perception software for displaying different images in each eye of the test subject.

**UC Santa Barbara: Computer Science Department**

September 2017 - December 2017

*Computer Science Tutor*

- Tutored introductory computer science students under the mentorship of two professors.
- Homework, projects, and labwork help.

**Naval Postgraduate School**

June 2014 - August 2014

*Cybersecurity Internship*

- Migrated Carnegie Mellon CTF (PicoCTF) to a local nginx web server for future modifications.
- Automated the decryption of ciphered text files using frequency analysis techniques.