

Arnav Garg

Beverly Hills - Los Angeles

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EDUCATION

University of California - Los Angeles

Masters in Computer Science

Sep 2018 – Apr 2020

- **Teaching Assistant:** PIC10A - Introduction to Programming
- **Cumulative GPA:** 4.00 / 4.00

University of Texas - Arlington

Bachelors in Computer Science

Aug 2014 – May 2018

- Graduated with College Honors.
- **Cumulative GPA:** 3.98 / 4.00

Selected Coursework (Graduate and Undergraduate)

Quantum Programming

Neural Networks & Deep Learning

Artificial Intelligence

Linear Algebra

Machine Learning Algorithms

Intro to Machine Learning

Foundations in Deep Learning

Automated Reasoning

WORK

EXPERIENCE

Microsoft

Bellevue, WA

Software Engineering Intern, AI Platform

Jun 2019 – Sep 2019

- Working with the Analysis and Experimentation Team under Azure AI.

Nod Labs

Mountain View, CA

Software Engineering Intern, Computer Vision

May 2017 – Aug 2017

- Camera Sync Interrupts: Created low level camera sync packets to sync the Nod's HMC camera and Optitracks camera and transferred the packets over to server via in-house serial protocols.
- Latency Check: Developed an API to find the latency in the Nod's propriety object tracking algorithm.

RESEARCH

EXPERIENCE

Heracleia Lab, University of Texas - Arlington

Aug 2015 – Aug 2017

- Worked on algorithms for diagnosis and handling of dementia-related diseases in the elderly, as well as increasing efficiency in memorizing system assigned passwords.

PUBLICATIONS

- [1] Arnav Garg. 2018. Glovelet: Wearable Virtual Object Tracking Glove. Undergraduate Honors Thesis at the Honors College. University of Texas - Arlington, Arlington, TX, USA
- [2] Theodora Toutountzi, Cheryl Abellanoza, Arnav Garg, Dylan Ebert, and Fillia Makedon. 2017. Rewind/Remind: A cognitive tool for people with associative memory deficits. In Proceedings of the 10th International Conference on Pervasive Technologies Related to Assistive Environments (PETRA '17). ACM, New York, NY, USA, 390-393. DOI: <https://doi.org/10.1145/3056540.3076178>

PROJECTS

GloveLet

Python, Flex Sensors, OpenCV, Arduino

- Glovelet is wearable tracking glove that can replace the traditional mouse to a more user-interactive and easy to use device. This greatly enhances the user experience and allows users to use their hands to move both two-dimensional and three dimensional objects on the computer screen. The glove thereby makes this visualization more intuitive for users across all ages

SecurePass

NodeJs, AngularJs, ExpressJs, MongoDB

- A web-based game that helps the user memorize system assigned passwords easily.

Unmanned ROVER

Python, Arduino

- Developed a Python Code using Pygame to control the movement of the R.O.V.E.R (Remotely Operated Vehicle for Exploration and Reconnaissance) via a Joystick Controller.

LANGUAGES

Python, C/C++, Matlab, Shell, Javascript, Java, MySQL, MongoDB.

FRAMEWORKS & LIBRARIES

NumPy, Matplotlib, Scikit-learn, Flask, NodeJs, ExpressJs, PyGame