Arnav Garg

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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 (Incoming), AI Platform — Jun 2019 – Sep 2019
- Joining the Exp-Platform and AI Team. Internship starts Summer 2019

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: Wrote scripts 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 would greatly enhance the user experience and would allow users to use their hands to move objects, both two-dimensional and three dimensional, on the computer screen thereby making the experience more intuitive for younger and older adults.

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