Arnav Garg

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EDUCATION

UNIVERSITY OF TEXAS AT ARLINGTON
BS (Honors) in Computer Science
Expected May 2018
Dean's List (All Semesters)
Cum GPA: 3.97 / 4.0
Major GPA: 4.0 / 4.0

SKILLS

PROGRAMMING
Over 5000 lines:
Python • Javascript • MATLAB
Over 1000 lines:
C++ • C • Java • LaTeX • Shell
Frameworks:
React • React Native • Ionic • AngularJS
Familiar:
• Android • MySQL • Jenkins

LEADERSHIP

• Fellowship at DART
Aug 2017 - Present

• VP of Linux User Group UTA
Jan 2017 - Present

• Director of Operations and Volunteers at HackUTA
Jan 2017 - Present

• Resident Assistant at UTA
Aug 2015 - Aug 2016

COURSEWORK

Artificial Intelligence I
Machine Learning
Operating Systems
Theoretical Concepts in CS
Databases
Linear Algebra

LINKS

Website:// **arnavgarg.me**
Github:// **thearnavgarg**
LinkedIn:// **arnavgarg30**
Devpost:// **thearnavgarg**

EXPERIENCE

CLOUD 9 PERCEPTION | Software Engineering Intern
August 2017 - December 2017 | Arlington, TX
- Led the design and development of a robust object recognition and pose estimation system that depended on minimal knowledge and data of the object.
- Implemented the system design using the Point Cloud Library with a 3-dimensional camera system in an embedded platform.

NOD LABS | Software Engineering Intern
May 2017 – August 2017 | Mountain View, CA
- Created an API to provide ground truth data from Optitrack for Nod's 6 DOF VR/AR motion tracking solution.
- Worked on the firmware code to capture Optitrack's camera sync interrupts and create data packets.
- Decoded the packets coming from the firmware and created Protobuf packets in the server.
- Developed an algorithm to transform the data coming from Nod's HMC (Head Mounted Camera) co-ordinate frame to Optitrack's co-ordinate frame.

HERACLEIA LAB | Undergraduate Research Assistant
August 2015 – August 2017 | Arlington, TX
- Developed algorithms and web-based applications to help in diagnosis and handling of dementia-related diseases in the elderly, as well as increasing efficiency in memorizing system assigned passwords.

IDIR LAB | Software Engineering Intern
May 2015 – August 2015 | Arlington, TX
- Worked on maximizing code coverage in database application testing. The program would execute the queries on a database and may use any result value in its subsequent program logic.
- Integrated a JavaScript library for parsing, manipulating and plotting trees in the Newick format.
- Created a visual representation of the nodes in the application tree using JsTree API.

PROJECTS

UNMANNED ROVER
Python, Arduino
- Developed a Python Code using Pygame to control the movement of the R.O.V.E.R via a Joystick Controller.

SECUREPASS
PhaserJS and Jquery
- A web-based game that helps the user memorize system assigned passwords easily.

PUBLICATION

• 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