

Arnav Garg

<http://arnavgarg.me> | arnav.garg@mavs.uta.edu | 682.597.7383

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

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](https://github.com/thearnavgarg)
LinkedIn:// [arnavgarg30](https://www.linkedin.com/in/arnavgarg30)
Devpost:// [thearnavgarg](https://devpost.com/thearnavgarg)

EXPERIENCE

CLOUD 9 PERCEPTION | SOFTWARE ENGINEERING INTERN

August 2017 - Present | Arlington, TX

- Working with the Computer Vision Team to develop Machine Vision Algorithms.

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>