

Aryan Mediratta

Arlington, Texas

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EDUCATION

The University of Texas at Arlington

Arlington, Texas

Bachelor of Science, Computer Science (Honors)

May 2025

- Cumulative GPA: 4.0
- Relevant coursework: Information Security, Artificial Intelligence, Machine Learning, Neural Networks and Deep Learning, Autonomous Robot Design and Programming, Bioinformatics

TECHNICAL SKILLS

Languages: C, C++, Python, ARM Assembly, Java, SQL, JavaScript, HTML, CSS, PHP, MATLAB, \LaTeX

Libraries: Numpy, TensorFlow, Keras, SciKit-Learn, Matplotlib, React, Svelte, OpenCV, Node, Express, jQuery

Hardware: Arduino, Raspberry Pi

Operating Systems: Linux, UNIX, Windows

Other tools: Docker, GNU Debugger (GDB), Valgrind, Bash Scripting, Figma, Adobe XD, Travis CI

PROJECTS

HealthApp | *Java, Android, Firebase*

May 2023

- Developed an Android application to keep track of users' vitals, medication and other health information with smart reminders.
- Source code: <https://github.com/aryan-02/HealthApp>

Arena Allocator | *C*

October 2022

- Implemented a custom memory allocator using First Fit, Best Fit, Worst Fit and Next Fit.
- Benchmarked performance of each allocation scheme against the default glibc functions.
- Source code: <https://github.com/aryan-02/ArenaAllocator>

HackUTA 2022 Website | *Svelte, Vite, SASS, JavaScript*

October 2022

- Developed a single-page website for HackUTA 2022.
- Created design/branding assets and integrated them as components.
- Link: <https://2022.hackuta.org>
- Source code: <https://github.com/acmuta/hackuta2022-site>

LookOut | *PHP, NodeJS, Express, MongoDB, SASS*

April 2020

- Crowdsourcing application where people rate various parameters of the quality of life in their areas.
- Finished third at The Global Hack Governance, a global COVID-19 hackathon.
- Demo: <https://youtu.be/aFgh4BniKHQ>

Line Follower Robot using Computer Vision | *Raspberry Pi, Python, OpenCV*

November 2019

- Developed a customized PID algorithm to make a robot follow a line using a camera.
- Built safety features to account for false-positives and handle edge cases.
- Project Video: <https://youtu.be/3-UEsF-4HYY>

More projects: <https://github.com/aryan-02>

WORK EXPERIENCE

Teaching Assistant - Algorithms and Data Structures

January 2022 – Present

The University of Texas at Arlington

Arlington, Texas

- Reviewed, tested and graded over 8000 lines of C code for correctness and reported bugs.
- Redesigned assignments and wrote automated unit tests for students to encourage test-driven development.
- Provided support to students taking the class and organized recitation sessions for Algorithms and Data Structures.

ACTIVITIES AND INVOLVEMENT

Association for Computing Machinery

August 2022 – Present

- Restarted the club and serving as Vice President since 2022.
- Organized HackUTA - UT Arlington's annual hackathon and developed the event website.

Competitive Programming

April 2017 – Present

- Silver Medal at ICPC TxState Texas Mexico Invitational Programming Contest, 2023.