

ARYA AGIWAL

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EDUCATION

The University of Texas at Austin - Bachelor of Science, Computer Science

May 2025

GPA: 3.92 (University Honors)

Courses: Computer Architecture, Data Structures, Multivariable Calculus, Discrete Math, Probability and Statistics

LEADERSHIP AND ACTIVITIES

TX Convergent - Artificial Intelligence and Data Analysis Case Developer

September 2021 – Present

- Developed website allowing small businesses to compare and review financial/technical business software
- Constructing digital platform that curates a feed of stocks based on user feedback and Yahoo Stocks API
- Designed user interface for digital platform in Figma, accounting for display differences across platforms

Engineering/Computational Learning of AI in Robotics (ECLAIR) - Member

August 2021 – Present

- Modeling and reprogramming a robotic arm in PyBullet to train it to pick up and move small objects
- Optimizing robotic arm URDF to accurately reflect the range of motion of the arm and servos' strengths
- Producing dataset of facial images to analyze in Python with Machine Learning to recreate facial detection

ByteHacks 2020 – First Place Winner

- Prototyped a web [military inventory system](#) using Google Navigation API for ancient Roman Soldiers

Hack the World 2020 – Third Place Winner

- Modeled a [water quality sensor](#) that utilizes data from 7 separate sensors to produce one quality index
- Researched measurement systems for dissolved oxygen, fecal coliform, Nitrate, and various other factors to develop algorithm in Java that combines data into meaningful output

UniGlobe Hacks – EchoAR Award Recipient

- Programmed a [prototype lab safety course](#) implementing EchoAR to displays AR models of lab equipment

PROJECTS

Radix Converter – Independent Project

- Converts numbers between any two radices in C, if the number can be represented in numerical digits
- Able to work around floating-point error to convert fractional values by manually computing values
- Prototyped new ASCII-based system to represent up to base 71 numbers in single digit symbols

Wordle Solver – Partnered Research Project

- Engineering an algorithm that figures out the next word to try for each round of the Wordle web game
- Scans through list of weighted 5 letter words to break ties and identify remaining possibilities.
- Generates weights for words through character frequency probabilities and previous guess data

COMMUNITY INVOLVEMENT

Hindu Swayamsevak Sangh - UT Branch Vice President, Branch Co-Founder, Lecturer

March 2016 - Present

- Coordinate general meetings and hold lectures about Hinduism for audiences of 15-25 UT students
- Promote campus cleaning and organize cultural events with UT Austin Student Activities Center
- Earned \$2500 through UT sponsor to celebrate the Hindu New Year with performances and cultural booths
- Invited guest speakers to talk about the Vedas and provide insight into Hindu culture and volunteering projects in front of 30 - 80 attendees

SKILLS + INFO

- **Languages:** Java, C, Experienced with HTML, Python, C# (Used in combination with Git, Linux Environment)
- **Certifications:** CS IB C# and CS IB Python Certifications
- **Interests:** Football, Novel writing, Music, Reading, Minecraft, Chess, French Horn