Troy Davis

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Education

The University of Texas at Austin — Austin, TX
Incoming Freshman, Computer Science — *Starting Aug. 2025*

Cypress Woods High School — Cypress, TX
High School Diploma — *Aug. 2021 – May 2025*

- **Weighted GPA:** 6.8810/6.0000 ; **Class Rank:** 5 out of 784
- **Relevant Coursework:** CS 1-4K (including CS A AP & CS Principles AP), Statistics AP, Calculus BC AP
- **Relevant Clubs:** Cypress Woods Computer Science Outreach Program (Founder and President of Instruction), Computer Science UIL Club (Vice President, Hardware Manager), Computer Applications UIL Club (Previous Vice President)

Experience

Software Engineer — Dec. 2024 – Present
Infinitaz Development — *Cypress, TX*

- Developed and optimized a C#-based Google Business Analytics bot, enhancing data processing efficiency and automation
- Refactored the company's database system by replacing hardcoded queries with dynamic, scalable solutions, resolving data duplication issues and significantly enhancing query performance and system responsiveness
- Conducted in-depth performance analysis of a remote execution software in C#, implementing optimizations that increased speed and reliability
- Designed and launched a professional sales website and crafted a strategic sales plan to drive adoption of the remote execution software

Artificial Intelligence Cyber Security Research Intern — June 2024 – Aug. 2024
The University of Texas at Dallas — *Dallas, TX*

- Developed Recurrent Neural Network (RNN) model to detect malicious repositories on GitHub
- Worked along with PhDs, achieving co-authorship of research papers, "When AI Meets Code Analysis: A Study of Adversarial Attacks on Deep Learning-based Code Models via Program Transformation" (approved) and "NatGVD: Natural Adversarial Example Attack towards Graph-based Vulnerability Detection" (under approval)
- Collected vast amounts of GitHub user based data with various different self-created Python scripts utilizing Pandas and different GitHub Python libraries

Projects

CDUB UIL CS PREP | *MySQL, PHP, JS, HTML, CSS*

- Specialized in the back end development (PHP, SQL) and worked on front end development (HTML, CSS, JavaScript)
- Developed a database system to store data for different types of users and various kinds of multiple choice Java problems
- Used to prepare UIL competitors for Computer Science competitions

InstaCleanser | *Python, Tkinter, Instaloader*

- Developed a desktop application to view Instagram followers, following, and an interface to unfollow those who do not follow the user back
- Implemented Instaloader API for pulling Instagram user data and included 2FA login methods
- Utilized Tkinter to make a simple, easy-to-use user interface

Technical Skills

Languages: C#, Java, Python, C/C++, SQL, JavaScript, HTML/CSS
Frameworks: TensorFlow, PyTorch
Developer Tools: Git, Google Cloud Platform, Visual Studio, VS Code, Visual Studio, PHPStorm, PyCharm, IntelliJ, WordPress
Libraries: Pandas, NumPy, Fasterwhisper, Tkinter