

Education

Texas A&M University, B.A. Computer Science, Major GPA: 3.8 Aug 2022 - May 2026

- Relevant Courses: Program Design, DSA, Computer Organization, Database Systems, Programming Languages, Computer Graphics, Software Engineering, Computer Systems, Design and Analysis of Algorithms

Experience

Curriculum Developer May 2024 - Present

Smart Core Labs Houston, TX

- Developed and implemented Python curriculum for data structures and algorithms.
- Taught data structures and algorithms in Python, Java, C++, and Lua to high school students.
- Demonstrated ability to learn, apply, and teach new technologies quickly.

Research Assistant Nov 2023 - Dec 2023

Texas A&M Live Lab College Station, TX

- Analyzed data using Python libraries (Numpy, Pandas) to discover insights on gamification in education.
- Presented findings to leadership, resulting in a 20% increase in client satisfaction ratings over 7 days.

Programming Instructor Jun 2023 - Aug 2023

iCode Sugar Land, TX

- Taught game development and web development using Lua, JavaScript, HTML/CSS, and C#.
- Developed strong communication skills by explaining complex technical concepts to students.

Projects

Evolution Simulator

- Developed a 3-dimensional cellular automaton designed to simulate mutation and natural selection.
- Improved performance by 1200% by implementing spatial partitioning and multithreading.

Browser Extension

- Created a cross-platform browser extension for deterministically generating secure passwords.
- Utilized JavaScript, hashing, regular expressions, and browser APIs to develop a solution.

Client Database Application

- Designed and created a full-stack CRUD database application for managing the employees, inventory, orders, and timesheets for a hypothetical retail company.
- Implemented the service using Python (Flask), PostgreSQL, and React, and deployed to AWS.

Skills

Languages: C++, Rust, Python, Java, JavaScript, C#, Golang, SQL, React.js, HTML, CSS

Technologies: Git, Linux, SQL, Web Development, React, REST, OpenGL

Concepts: Object-Oriented Programming, Functional Programming, Data Structures, Algorithms

Soft Skills: Oral & written communication, teamwork, presentation, public speaking

Awards

- **Eagle Scout, Boy Scouts of America** - organized 20 volunteers to create ~840 masks
- Aggie Coding Club - **Best Project Manager** for Spring 2024
- **Mu Eta Sigma Math Honor Society**

