

EDUCATION

University of Texas at Dallas | *B.S Computer Science* | GPA: 4.0

December 2024

Awards: Academic Excellence Scholarship, STEM Scholarship for the Jonsson School Award.

Courses: Computer Science, C++ Programming in Unix Environment, Data Structures & Algorithms, Automata, Digital Logics, Computer Architecture, Discrete Mathematics.

PROFESSIONAL EXPERIENCES

Department of Defense | *Army National Guard*

March 2020 - Present

- Secondary in charge of operating and repairing the Engagement Skills Trainer system.
- Inspected, maintained, and reported deficiencies of \$1.5 million worth of heavy military armored vehicles, weapon systems, and other equipment.
- In charged of successful handling and delivery of equipment using heavy duty trucks.
- Implemented construction plan with other construction guardsman to site under supervision of platoon sergeant and leader.

NSIN X-Force Fellowship | *Software Developer*

June 2022 - August 2022

- Led fellowship team in developing the Modular Real Time Enterprise, a multi-million-dollar weapon system software, for the Department of Defense.
- Extended previously Linux-only software to cross compatible with Windows systems by re-writing OS-independent libraries and translating *Bash Script* to *Python*.
- Revised, updated, and maintained legacy C/C++ 98 code to C/C++17 standard as well as migrated deprecated GUI API gtkmm2 to a newer major version gtkmm3 and improved user interface aesthetic.

Mathnasium | *Math and Physics Tutor*

June 2019 – May 2020

- Tutored K-12 students in topics including algebra, geometry, pre-calculus, trigonometry, calculus, high school physics, and college-level physics.

PERSONAL PROJECTS

Physics Engine | *C++, Simple Direct Media Layer 2, Docker, Physics, Mathematics*

- A desktop software that renders and outputs numerically evaluated states of rigid-body system dynamic (gravity, collision, rotation, resistance, etc.) Designed to be used in future projects.

Project Yumiya | *NodeJS, ReactJS, ExpressJS, RESTful API, Docker, Nginx, MongoDB, Netlify*

- A full stack application that supports users' time management by highlighting and summarizing daily events, provides a quick-access note taking user interface, route planning, and streamlines insights to external factors that could affect planned events.

Paddle | *ReactJS, JavaScript, Python, MongoDB, FastAPI, Docker, Nginx, Google Cloud*

- WeHack 2023's first-place winning web app which organizes and suggests local humanitarian opportunities aimed to help tourists explore diverse cultures while traveling.

Sorting Algorithm GUI | *Java, Java AWT, Java Swing*

- A cross-platform graphical desktop application that is used to compare and analyze sorting algorithm performance based on user-desired data organization properties and preferred sorting algorithms.

TECHNICAL SKILLS

Software: C++, C, Java, HTML, CSS, TypeScript, JavaScript, ReactJS, Python, MongoDB.

Tools: Node.js, Express.js, FastAPI, SDL2, gtkmm, GitHub, Heroku, Docker, Nginx, Netlify, Google Cloud.

Other: Mathematics, Physics, AutoCAD, Microsoft Office, Vietnamese (Native Language), Japanese (Beginner).

EXTRA INVOLVEMENTS

Artificial Intelligence Society | *Software Developer Officer*

February 2022 – September 2022

- Back-end development using TypeScript and Discord API to improve and add new functionalities for the organization's instant messaging platform.

TAMU Hack | *Mentor*

January 2022

- Technically supported with development tools and general programming fundamentals.

Texas A&M Machine Learning | *Camp Counselor*

July 2021

- Technically led and guided an assigned group of 4 middle school and high school students.
- Coordinated the 3-day camp event with the official organizer.