

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 super vision of platoon sergeant and leader.

NSIN X-Force Fellowship | Software Developer
2022

June 2022 - August

- 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
2020

June 2019 – May

- 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, 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, Google Cloud, 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, and streamlines insights to external factors that could affect planned events.

Waddle | Python, MongoDB, JavaScript, HTML, CSS, FastAPI

- A web-based platform to streamline volunteering opportunities developed by a team of four (worked as a full-stack dev).

Retire Match | ReactJS, HTML, CSS, JavaScript

- An extension to TIAA's financial consulting website that tailors retirement plan options to users. This app aims to help simplify and improve the users' understanding of retirement plans.

TECHNICAL SKILLS

Software: C++, C, Java, HTML, CSS, TypeScript, JavaScript, ReactJS, Python, MongoDB, Bash Scripting, MIPS Assembly.

Tools: Node.js, Express.js, FastAPI, SDL2, gtkmm, GitHub, Heroku, Firebase, Netlify, Google Cloud, Linux Command Line.

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

EXTRA INVOLVEMENTS

Artificial Intelligence Society | Software Developer Officer
2022

February 2022 – September

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

TAMU Hack | Mentor
2022

January

- Technically supported with development tools and general programming fundamentals.

Texas A&M Machine Learning | *Camp Counselor*
2021

July

- 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.