# Jeremy Lam Nguyen

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Active Secret Clearance
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## 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, 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.

**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, 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*      **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.