Jeremy Lam Nguyen

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EDUCATION

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

L3 Harris Technologies | *Software Developer*   **January 2023 – August 2023**
- Developed user interface with C++ using QT4 and QT5 frameworks.
- Worked on data transmission software and developed mathematical methods to appropriately display data points given aircraft conditions.
- Created unit tests with QTest. Implemented code coverage visualization.
- Automated systematic Doxygen-styled documentation for code modules using Bash.
- Integrated code security scan with Coverity.
- Managed project pipeline for continuous integration and development using Jenkins and Gitlab CI.

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.

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.

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.

TECHNICAL SKILLS

Software: C++, C, Java, HTML, CSS, TypeScript, JavaScript, ReactJS, React Native, Python, MongoDB.
Tools: Node.js, Express.js, FastAPI, SDL2, Gtkmm, QT, GitHub, Docker, Nginx, Netlify, Google Cloud.

EXTRA INVOLVEMENTS

Artificial Intelligence Society | *Software Developer Officer*   **February 2022 – September 2022**
- Back-end development using TypeScript and Discord API