Martin Long Hoang Tran

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Software Engineer Intern

Education

Cal State University, Fullerton | Bachelors of Science, Computer Science   **Expected in May 2027**

Experience

Software Development Intern   **May 2025 - Present**

OpenQQuantify | Vienna, Virginia, United States (Remote)

- Developed an AI health assistant chatbot using LLMs (Hugging Face) for semantic search and FAQ generation.
- Built a Python ETL pipeline to transform FDA drug data from nested JSON to clean, structured CSVs.
- Designed a responsive frontend (HTML/CSS/JS) featuring real-time chat UI and theme toggling to improve user accessibility and engagement.
- Automated 3D asset acquisition via public APIs with license filtering (e.g., CC0), converting assets to optimized glTF/GLB format using Blender (headless mode), Assimp, and Python scripting, then integrating them into the web interface with Three.js for interactive, real-time 3D visualization.

AI Engineer   **June 2025 - September 2025**

Product Manager Accelerator | Boston, Massachusetts, United States (Remote)

- Designed and implemented the journal entries feature, creating MongoDB schemas, database models, and FastAPI endpoints to securely handle journaling data.
- Extended backend architecture to support chat history storage and future scalability.
- Collaborated on branch-based Git workflows, maintaining separate dev/testing branches and managing schema/database updates for new features.

Undergraduate Researcher   **May 2025 - August 2025**

NASA L'SPACE Program | Tempe, Arizona, United States (Remote)

- Researched and developed technologies aligned with NASA's Technology Taxonomy in areas including: Radiation Transport and Risk Modeling, Radiation Mitigation and Biological Countermeasures, Protection Systems, & Portable Life Support Systems.
- Investigated solutions to critical NASA agency pain points in health, safety, and survivability for long-duration space missions.
- Participated in proposal review sessions, providing constructive feedback based on NASA's evaluation framework and technical expectations.
- Utilized Siemens NX to develop and iterate CAD models.

Projects

Hermit | Property Management Web Application   **April 2025 - May 2025**

Developed a full-stack property management platform featuring user authentication, property search/listing capabilities, user reviews, and integrated payment functionality. Application was built using Flask (Python) for the backend, HTML/CSS/JavaScript for the frontend, and utilized MongoDB database. Integrated the RapidAPI real estate API, utilizing real-time property data. Led the testing efforts using Python's unittest framework, ensuring comprehensive coverage with 95% code coverage, across 40+ tests to maintain high reliability and code quality.
GitHub Link: https://github.com/martintran23/hermit2

Skills

Languages: Python, HTML, CSS, JavaScript   **Frameworks:** FastAPI, Flask, unittest, Bootstrap
Databases: MongoDB, PostgreSQL   **Libraries:** React.js, Three.js