

Tien Nguyen

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Education

University of Houston

Expected Graduation: 2026

Bachelor of Science in Computer Science (GPA: 3.6 / 4.00)

Houston, Texas

- **Relevant Coursework:** Algorithms & Data Structures, Computer Organization and Architecture, Operating Systems, Automata and Computability

Experience

NASA

May 2023 – Aug 2023

NASA L'SPACE Mission Concept Academy

Remote

- Collaborated with a team of **12** on a **NASA** space mission project, delivering comprehensive mission reports.
- Developed an accurate model using **Siemens NX CAD** facilitating science payload integration with subsystems.
- Collaborated with **NASA** professionals to develop solutions, enhancing team communication and project outcomes.

We Jewelry

May 2022 – Aug 2022

Web Developer

Houston, Texas

- Designed an E-commerce site with **HTML/CSS, and JavaScript**, reducing bounce rates by **30%**.
- Increased website traffic by **150+** visitors through **SEO**, resulting in a **25% visibility** surge in search engines.
- Applied **UI/UX** design principles to tailor the site to target user demographics, enhancing user engagement.

Projects

Computer Vision-Based AI Trainer | Python, Django, React JS

- Created a real-time fitness site using **Python, OpenCV, and MediaPipe** with **95%** accurate movement tracking.
- Built a responsive **React** frontend, increasing user engagement by **40%** with real-time workout feedback.
- Integrated **Django REST** framework and **Axios**, reducing server response time by **30%**.

Multi-threaded Rate Monotonic Scheduling | C++

- Implemented a **multithreaded** Rate Monotonic Scheduling in **C++** for multiprocessors using Partitioned Scheduling.
- Utilized **POSIX** threads for concurrent processing across multiple CPUs, ensuring efficient resource usage.

Space Weather Monitoring and Visualization | Python

- Developed a **Python** program for dynamic, interactive access to and interpretation of space weather information.
- Integrated **NASA's DONKI** and **NOAA's SWPC APIs** for up-to-date space weather data retrieval.
- Utilized **Matplotlib** library to generate interactive visualizations of various space weather phenomena.

Activities

ExxonMobil

Feb 2022

GIS Job Shadow

Spring, Texas

- Utilized **GIS** tools for data analysis, pattern identification, and decision-making on resource allocation and operational efficiency.
- Received hands-on training in **Esri ArcGIS** for energy applications, developing versatile skills in spatial dataset navigation.

Skills

Programming Languages: Python, C++, HTML, CSS, JavaScript

Technologies: React.js, RESTful APIs, Django, GitHub, Git, Microsoft Office Suite

Concepts: Object Oriented Programming, Data Structures, Operating Systems, Computer Architecture