Thien Nguyen

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Education

University of Houston Houston, TX

Bachelor of Science in Computer Science, Minor in Mathematics *Aug. 2022 – Expected May 2026*

- **Relevant Coursework:** Data Structures and Algorithms, Database Systems and Design, Operating Systems

Technical Skills

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS
Frameworks: React, Node.js, Next.js, Express.js, Material-UI, FastAPI
Developer Tools: Git, Github, Docker, Microsoft Azure, Amazon AWS, Siemens NX CAD, Solidworks
Libraries & Software: pandas, NumPy, Matplotlib
Concepts: Object-Oriented Programming, Cloud Computing, User Interface Design

Experience

Web Master May 2020 - July 2021

Our Lady of Lourdes Catholic Church *Houston, TX*

- Optimized web dashboard Time-To-Interactive (TTI) by **reducing load times from 3.8s to 3.35s, achieving a 16% performance improvement**.
- Contributed **1,000+** lines of code to an established codebase via **Git**.
- Conducted weekly surveys to improve the overall user experience, enhancing the site's visuals.
- Implemented a dark/light mode toggle, providing users with increased customization.

Professional Development

NASA L'SPACE Mission Concept Academy May 2024 – August 2024

NASA - National Aeronautics and Space Administration *Remote*

- Collaborated in a NASA team of **12** to **design a theoretical space rover** for the **Lucy Mission**.
- Acquired hands-on experience with **Siemens NX CAD** software, enhancing essential aerospace design skills.
- Gave weekly reports and deliverables to NASA engineers, ensuring on time project management.
- Strengthened teamwork and communication by working with NASA Engineers and Scientists, focusing on professional practices, team dynamics, and conflict resolution essential for the STEM workforce.

J.P. Morgan Software Engineering Virtual Experience May 2024

Forage *Remote*

- Set up a local dev environment by downloading the necessary files, tools and dependencies.
- Fixed broken files in the repository to make web application output correctly.
- Used JPMorgan Chase's open source library called **Perspective** to generate a live graph that displays a data feed in a clear and visually appealing way for traders to monitor.

Projects

Full Stack Grocery Store Github

- Developed a Point of Sale (POS) system web application using **Next.js** as framework, **Tailwindcss** for styling.
- Designed a relational database using **MySQL**, stored up to more than **20 entities** within the store.
- Hosted the database on cloud using **Microsoft Azure Database** for MySQL, minimizing hardware costs and ensuring high performance and security.
- Routed **API** endpoints with **Next.js** to handle user authentication, image uploads and data retrieval.
- Deployed the site though **Vercel**, experiencing **200+** user engagements **within the first hour**.
- Utilized **Git** for version control, pushing more than **7K+ lines of code to main branch**.

Power Grid Management System Github

- Utilized C++ classes to represent various types of power plants (coal, nuclear, solar), implemented functionalities such as adding, removing, and monitoring power plants.
- Developed classes to manage transmission lines, including properties such as capacity, length, power distribution, status, ensuring efficient power transmission between power plants and substations.
- Implement a simple fault detection algorithm to detect and handle faults or failures in the power grid network, keeping response time low and minimizing downtime.