Viet H. Pham

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EDUCATION

University of Houston | Houston, TX May 2024

B.S. in Computer Science, with a minor in Mathematics

Awards: Natural Science and Mathematics (NSM) Scholarship, Transfer Excellence Scholarship

- ***Relevant Coursework*:** Algorithms and Data Structures, Database Systems, Fundamentals of Software Engineering, Software Design, Programming Languages and Paradigms, Operating Systems, Fundamentals of Artificial Intelligence, Discrete Mathematics, Data Science and Statistical Learning, Statistic for Sciences

TECHNICAL SKILLS

- **Programming Languages**: JavaScript/TypeScript (Node.js), C++, Python, HTML5, CSS, SQL
- **Technologies and Tools**: Supabase, Git, npm, Postman, AWS, MySQL, PostgreSQL
- **Frameworks/Libraries:** Next.js, Express.js, Tailwind CSS, React, Redux, RTK Query, Material UI, Chakra UI

EXPERIENCE

IT Help Desk | Lone Star College September 2021 - December 2021

The Woodlands, TX

- Assisted users with VPN setup, email troubleshooting, account management, and password resets via phone and chat.
- Diagnosed and resolved Windows, macOS, and mobile device technical issues, escalating complex cases as needed.
- Provided user education and guidance on Microsoft Office, remote access tools, and security best practices.
- Maintained customer satisfaction scores above **90%** by providing timely and effective support.

TECHNICAL PROJECTS

Endurofy | *Website* | *Source Code* | React, Express.js, Material UI, MySQL June 2024 - Present

- **Developed** a comprehensive fitness tracking platform with features for food intakes, weight monitoring, and workout logging.
- **Integrated USDA Food Data Central API** to provide nutritional information for **300,000+** food items.
- **Implemented** secure **JWT authentication** with token rotation and advanced session management.
- **Created** interactive data visualization to track user fitness and weight progress.
- **Integrated** seamless third-party fitness app connectivity, allowing users to sync data from platforms like Apple health, myfitnesspal, and more to Endurofy for comprehensive health and fitness tracking.
- **Designed** adaptive user interfaces using **Material UI** and **React**, automatically displaying a mobile-optimized version on smaller screens and desktop layout on larger screens, ensuring smooth experience across devices.

Online Python Code Editor | *Website* | *Source Code* | C++, React, Express.js, ChakraUI April - May 2024

- **Engineer** an interactive web-based **Python** interpreter written from scratch in **C++**, enabling real-time code execution.
- **Developed** a **RESTful API** that processes source code sent from the frontend, interprets it using an interpreter written in **C++**, and returns the output along with execution time.
- **Implemented** seamless **frontend-backend** communication, allowing direct performance comparison of execution speeds between the custom **C++** interpreter and native **Python**, with results showing **~20 - 25%** execution time difference.

Zoo Webapp | *Source Code* | HTML, CSS, JavaScript, MySQL August 2023 - December 2024

- **Developed** a **full-stack** web app to streamline zoo operations and improve visitor experience.
- **Implemented** a **RESTful API** for seamless front-end and back-end communication, enabling efficient data retrieval and manipulation with near real-time response **(<10ms).**
- **Integrated AWS API** for secure and scalable cloud storage solutions, enhancing data accessibility and reliability.

3 Agents Reinforcement Learning Model | *Source Code* | Python April 2024

- **Developed** a PD World environment where agents take turns to pick up and drop off blocks.
- **Implemented SARSA/Q-Learning** algorithms with a Q-table and various action policies to aid the agents in learning the optimal path within the environment, improving task completion efficiency by **65%** by comparing to random movements.

ADDITIONAL INFORMATION & INTERESTS

Spoken languages: Fluent in English and Vietnamese

Interests: Full Stack Web Development, Data Science, Machine Learning and Artificial Intelligence