

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

Cumulative GPA: 3.35

- **Relevant Coursework:** Data Structures and Algorithms, Database Systems, Fundamentals of Software Engineering, Software Design, Programming Languages and Paradigms, Operating Systems

TECHNICAL SKILLS

- **Languages:** Java, JavaScript, TypeScript, Python, C++, HTML5, CSS, SQL
- **Frameworks/Libraries:** Spring Boot, Express.js, Next.js, React.js, Redux, RTK Query, Tailwind CSS
- **Developer Tools:** Git, GitHub, npm, postman, AWS, MySQL, Docker
- **Concepts:** OOP, Agile Methodology, JWT Authentication, CI/CD

EXPERIENCE

IT Help Desk

September 2021 - December 2021

Lone Star College

The Woodlands, TX

- Provided phone-based tech support for Windows environments, covering user login issues, Outlook issues.
- Troubleshoot and resolve network issues by configuring static IPs and mapping drives.
- Used Task Manager, Command Prompt, to identify and fix system performances issues.

PROJECTS

Endurofy | [Website](#) | [Front-end](#) | [Back-end](#)

TypeScript, Next.js, Express.js, MySQL, Redux

- Developed and deployed a full-stack fitness app to enhance personal fitness tracking efficiency by **80%**.
- Utilized **MySQL** for data storage, **Express.js** for **RESTful API** backend, and **Next.js** with **shadcn/ui** for a responsive user interface.
- Integrated **third-party APIs** (Apple Health, MyFitnessPal, Cronometer) to enhance data sync and user retention.
- Improved user experience by consolidating workout logging, weight tracking, and daily calorie data syncing via **third-party APIs** into one app, boosting daily users by **35%** and workout logging consistency by over **50%**.

Online Python Code Editor | [Website](#) | [Source Code](#)

C++, React.js, Express.js

- Engineer a **Python** interpreter written from scratch in **C++**.
- Utilized **Express.js** to build a **RESTful API** that receives source code, runs it through a custom interpreter, and returns real-time output to the **React.js** frontend.
- Performed benchmarks to measure execution time differences between the custom **C++** interpreter and native **Python**, revealing a **80-85%** similarity in execution speed.

Zoo Webapp | [Preview](#) | [Source Code](#)

HTML, CSS, JavaScript, MySQL

- 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 RDS** for scalable cloud storage solutions, improving data accessibility and reliability.

3 Agents Reinforcement Learning Model | [Source Code](#) | [Paper](#)

Python

- 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.

OTHER INFORMATION & INTERESTS

Spoken languages: Fluent in English and Vietnamese

Interests: Software Development, Machine Learning and Artificial Intelligence, Data Science