

Huu Quang Nhat Nguyen

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TECHNICAL SKILLS

Frontend: React, Vue.js, Svelte, HTML5, CSS/SCSS, TypeScript, Material-UI, Tailwind CSS, Redux

Backend: Python, Java, Node.js, Express, Django

Database: MySQL, MongoDB, Firebase

Tools & Platforms: Git, Docker, Azure Cloud, Postman API, Visual Studiom, Vercel, Netlify, Heroku

Methodologies: Agile, REST APIs, Responsive Design

EXPERIENCE

TMA Solutions - Software Engineer Intern

March – July 2024

- Increased dashboard performance by **40%** through optimization of data visualization components and **Redux** state management
- Reduced page load time by **60%** by implementing **React Query** for efficient data fetching and caching
- Built and deployed a search feature processing 50+ documents with **98%** accuracy using **lunr.js**
- Developed shift management feature that automates worker scheduling processes, optimizing operational efficiency for client businesses.
- Technologies used: *TypeScript, Redux, Postman, ReactQuery, MUI, Figma, SQL, Java, REST APIs, MapBoxGL*

College of Engineering and Applied Science Library - Python Instructor

January 2023 – August 2023

- Instructed a series of online **Python** workshops ranging from beginner to advanced levels, engaging **70+** participants and fostering programming skills development.
- Developed a self-paced Python workshop series using **Generative AI** as a coding tutor, complementing instructional videos for enhanced learning.
- Coordinated and hosted technical workshops, leveraging the library's resources to offer coding education in Python, Swift, and Julia.

TECHNICAL PROJECTS

Kalliope | *Flask, Python, TypeScript, Material UI, SCSS, Heroku, NGINX, React Query, MySQL*

December 2024 – now

- Built full-stack web application using Flask and React that processes research papers and generates AI-powered summaries
- Designed and built a robust backend service infrastructure using **Flask, Django (RESTful API)** and **MySQL** to manage file operations, data processing pipelines, and integration with a fine-tuned AI model for research paper summarization.
- Developed React frontend with **TypeScript, React**, and **Material-UI** that display AI-generated paper summaries and interactive citation timelines, incorporating modern state management using **React Query**.
- Created data pipeline system to process documents, coordinate with AI model, and deliver results to frontend

Azure FishingWaves | *Flask, Apache, Python, Javascript, HTML, CSS, Azure Cloud Server*

November - December 2024

- Designed and implemented an interactive web application using **Python** and **Flask**, deployed on an **Apache Web Server** hosted in **Azure Cloud**.
- Integrated the web application with SQL Server backend to manage and process real-time environmental data and user fishing reports
- Created an interactive dashboard with **HTML, CSS**, and **JavaScript** to visualize data trends and provide key insights, including best fishing methods, optimal times of day, and additional recommendations.
- Architected and deployed a full-stack fishing advisory system with an integrated ML model achieving **85% accuracy** in predicting optimal fishing locations based on historical catch data, seasonal patterns, and environmental factors

Protect You Project | *Material UI, TypeScript, SCSS, Javascript, Figma, Firebase, Vercel*

December 2024

- Created a responsive dashboard displaying key seasonal health information, leveraging state management and modularized components for dynamic rendering of illnesses, nutrients, and their natural sources.
- Developed a Nutrition Tab for detailed ingredient insights, categorized by nutrient source, providing users with a quick 'add-to-cart' feature for users to add necessary ingredients to their shopping cart
- Implemented an Alerts Tab with real-time updates on local health advisories using API integration.

EDUCATION

University of Cincinnati

Bachelor of Science, Computer Science

GPA: 3.75

- Primary Coursework: Data Structure, Algorithm Design, Database Design, Computer Networking, UI/UX, Intelligent Data Analysis, Computer Theory, Introduction to Cloud Computing, Software Architecture