

Duy Nguyen

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Education

University of Michigan

Bachelor of Science in Computer Science

Ann Arbor, MI

May 2023

Skills

Languages: C, C++, Python, Java, JavaScript, HTML, CSS, SQL, Bash, PHP, TypeScript, Swift

Frameworks & Tools: React, NodeJS, Flask, PostgreSQL, JQuery, MongoDB, Express, Bootstrap, Vue, Git, AWS, GCP

Professional Experience

Web Developer

Oct 2022 – May 2023

University of Michigan

Ann Arbor, MI

- Collaborated closely with developers and UI/UX designers to test, create, and deploy a highly responsive design for the Empower project, resulting in improved user experience by 8% and increased engagement for 112+ users
- Upgraded website functionality and performance by refining internal WordPress codebase, resulting in a 5% efficiency boost and reducing loading time by 3 seconds
- Volunteered to feature development, website maintenance, and resolution of over 20 bugs, culminating in a 10% boost in user satisfaction

Full Stack Web Development Intern

Jun 2022 – Aug 2022

CodePath

Remote

- Collaborated in a team of 3 SDEs, paired with mentors from Workday's senior software engineering team, to plan, develop, and deploy a 5-week MVP web application in an Agile setting
- Gained hands-on experience in database management, implementing efficient data models and employing suitable technologies for storage and retrieval, optimizing data handling processes
- Built a RESTful API as a pivotal component of web application development, facilitating seamless communication between frontend and backend, enhancing overall system functionality
- Executed comprehensive testing for web applications using Jest, methodically identifying and resolving bugs and issues, ensuring a robust and reliable user experience

Projects

StatTrack | Python, Swift, TensorFlow Lite

[Github](#)

- Teamed up with 6 other developers to gather and assess user requirements, and aided in usage of machine learning techniques to train a model for detecting and analyzing shots and possession in basketball games
- Devised and built the UI, ensuring a visually appealing and user-friendly mobile interface

Reciholic | HTML, CSS, JavaScript, React, PostgreSQL, Node, Express

[Github](#) | [View Project](#)

- Designed a RESTful API accommodating 15+ simultaneous user requests while safeguarding against 99% of potentially malicious vulnerabilities
- Implemented lazy loading and pagination features to prevent overloading users with a large volume of recipes, reducing server wait time by 5 seconds
- Strengthened error handling, wrote extensive test cases for both front-end and backend with Jest, resulting in enhanced system security and preventing 95% malicious attacks
- Constructed drag-and-drop and reusable popup React components, refining user interface and functionality.

Search Engine | HTML, CSS, Python, Flask, SQL, Bash

- Adapted Google's PageRank algorithm to improve search query speed by 10%, decreasing irrelevant results by 20%
- Developed a user-friendly Google-styled interface for efficient page indexing using a MapReduce pipeline

Extracurricular

Eucharistic Youth Movement

Aug 2015 – Jun 2020

- Managed a planning team to devise team games for annual group camping events with 50+ members, fostering a more enjoyable experience
- Led a team of 30+ members as co-team leader, orchestrating community events for holiday seasons
- Performed traditional dance to educate youth about cultural backgrounds