MARTIN NGUYEN

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EDUCATION

Bachelor of Science, Computer Science. GPA: 3.95   Expected Graduation: Fall 2024
Oregon State University – Benton County, Oregon
> **Relevant Coursework**: Data Structures and Algorithms, Operating Systems, Parallel Programming, Software Engineering, Computer Networks, Computer Architecture & Assembly, Introduction to Databases

SKILLS

- C++, Python, C, Javascript, CSS, HTML, SQL, Assembly, OpenCL, CUDA, Java, PHP, TypeScript
- React, Node.js, Express.js, Flask, MongoDB, MySQL, phpMyAdmin

Projects

BigShell   April –June 2024
- Help implemented a POSIX-like shell program for a school assignment
- Implements a large subset of the POSIX Shell's functionality
- Features include built-in shell utilities, signal handling behavior of shells and commands, command executions like I/O redirection, variable assignment and more

Personal Finance Management Microservice Fullstack Project   April –June 2024
- Developed a Personal Finance Management full-stack application with CRUD features for expense tracking, API calls for both currency conversion and historical currency rates, all using a microservice architecture。
- Implemented and integrated multiple microservices and APIs for use
- Utilizes Flask, MongoDB, React, RESTful APIs, and Python
- Collaborated on API integration with team members, fetching real-time and historical currency exchange rates from external sources and providing reliable data for financial management.

Team Management Database Project   Jan-March 2024
- Help develop a database-driven full-stack web application in collaboration with a team member to manage player, coach, equipment, and injury data, utilizing full CRUD operations.
- Connected to phpMyAdmin databases to ensure data integrity and prevent data loss
- Utilized JavaScript, Handlebars.js, HTML, and CSS for the front-end and SQL for the back-end

Full-Stack MERN Website   October 2023 – December 2023
- Developed a dynamic and responsive website using the MERN stack (MongoDB, Express.js, React, Node.js).
- Implemented CRUD operations for managing data through a RESTful API.
- Includes features like an Order page for managing and editing orders, a Gallery with images, and a Contact page for processing and sending email messages with form data
- Technologies Used: MongoDB, Express.js, React, Node.js, RESTful APIs, HTML, CSS, JavaScript.

Client/Server Chat and Game Project   March 2024
- Developed a client-server chat room and multiplayer ASCII game using Python sockets. Has the ability to switch between a chat room and a rock-paper-scissors game
- Implemented socket programming and TCP/IP protocols to establish robust client-server interactions.
- Utilized Python