Hanlun Zheng

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EDUCATIONS

University of Maryland, College Park (UMD)   Expected Dec. 2024
Master of Engineering in Software Engineering

University of Maryland, College Park (UMD)   Dec. 2022
Bachelor of Engineering in Computer Engineering

SKILLS

Programming: JavaScript | C | Python | Java | Assembly | HTML | CSS
Database: MySQL | MongoDB | Firebase
Framework: React | Node | Flask | Docker |Tailwind | Sass
Platforms: Linux, MacOS, Windows

WORK EXPERIENCE

Full Stack Developer Intern, *Horizon Labs*, *MD*   May. 2024 – Aug. 2024
- Employed React Router to establish routes for login pages and admin dashboards, resulting in enhanced user access control and strengthening overall system security
- Assisted in designing and optimizing database schemas to ensure efficient data storage and retrieval.
- Contributed to code reviews and collaborated with team members and creating a transparent process throughout the development life cycle.
- Wrote unit tests to ensure the reliability and quality of application features before deployment.

Web Developer Intern, *Digi Solution*, *Baltimore, MD*   May. 2023 – Aug. 2023
- Produced multiple visual elements of web applications by designing UI/UX and translating them into code, producing high-quality markup using HTML and SASS.
- Developed more than 10 WordPress sites including e-commerce websites and online food restaurants utilizing HTML, CSS, JavaScript, and other plugins.
- Implemented SEO and other web optimization techniques and improved CTR by 35%.

ADDITIONAL PROJECT EXPERIENCE

Web Development, *College Park, MD*
- My Work Portfolio " https://hanlunzheng.github.io/protfolio/ "

Job Searching Application | Flask, Python, MySQL, HTML, Bootstrap
- Developed a dynamic web application using **Flask,** a Python web framework.
- implemented cloud **MySQL database** integration to enable database-driven functionalities.
- Designed user-friendly web pages with **HTML, CSS, and Bootstrap** for a responsive UI.
- Utilized **SQLAlchemy to connect the Flask** application to the database for seamless data interaction.
- Created dynamic web pages that display data fetched from the cloud database.

Full-Stack Ecommerce Website | React, MongoDB, Nodejs, Express
- Primarily focused on Frontend development, using **ReactJS, Tailwind CSS**
- Developed components, Forms, and Events using **React.js** and used **Axios** to call backend API
- Secured backend API endpoints with **token-based authentication** to restrict access to authorized users only.
- Conducted **comprehensive endpoint testing** to validate API functionality and communication between client and server, ensuring reliability and performance.

Realtime Chat Application | React, MongoDB, Nodejs, Express
- Developed a real-time chat app using the **MERN stack (MongoDB, Express, React, Node.js)** integrated with Socket.io for real-time messaging.
- Implemented authentication and authorization using JWT, ensuring secure user access.
- Built online user status tracking using **React Context and Socket.io**.
- Handled error management on both client and server sides for a robust user experience.