

VINAY KANCHARLA

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Summary

Highly motivated and detail-oriented Full Stack Developer with experience in the designing, developing, and maintaining applications. Proven ability in optimizing web functionalities that improve data retrieval and workflow efficiencies. Passionate about coding and delivering high-quality user experiences, with a keen interest in continuous learning and the application of new technologies.

Skills

Programming - C, C++, Java, Python

Front-End Development - HTML5, CSS, Bootstrap, JavaScript, React.js

Back-End Development- Node.js, Express.js

Data Analysis Tools- Stata, MATLAB

Database - MySQL, MS Access

Version Control - Git, GitHub

Cloud Services: AWS

API Development- RESTful API, Authentication (JWT, OAuth)

Testing and Debugging- Jest, Visual Studio Code

Certifications

CERTIFIED WEB PROFESSIONAL

OCT 2021 - OCT 2024

Education

Master's In Information Systems

AUG 2023- DEC 2025

Cleveland state University, Cleveland, United States

(GPA: 3.78/4)

Experience

Graduate Assistant, Cleveland State University

JAN 2024 - MAY 2024

- Designed a user focused educational website targeting economics students, using **HTML5** and **CSS** for interface design.
- Mastered **JavaScript** to enhance user interaction through dynamic content updates and real-time **data visualization**, significantly improving the educational experience for students.
- Integrated **Open Ai's API** to access a vast database of economic data, leveraging the API to tailor information delivery to the specific needs of economics students.
- Designed and implemented API request handling mechanisms to fetch, parse, and display data dynamically on the website, ensuring data integrity and usability.
- Created robust error handling processes to manage API connectivity issues, data retrieval errors, and unexpected data formats, improving the site's reliability.

- Developed caching strategies to minimize API calls and improve site load times, enhancing user experience while managing costs associated with API usage.
- Optimized database queries in **SQL** and performed regular database maintenance to ensure high performance.

Full Stack Developer, MBM Infoserv, India

FEB 2022 - MAY 2023

- Implemented responsive web designs using **React.js** for the **front-end** and **Node.js** for the **back-end**, ensuring cross-browser compatibility across 5+ major browsers, leading to a 30% increase in user engagement.
- Developed over 4 **RESTful APIs** for real-time data processing, resulting in a 25% improvement in data retrieval speed and efficiency.
- Developed robust server-side applications using **Node.js** and **Express.js**.
- Designed and managed database using **MySQL**, including setting up schemas and writing queries, which led to a 50% reduction in data retrieval times for complex queries.
- Utilized **Git** for version control and **GitHub** for repository hosting, adhering to best practices for code reviews and merges.
- Engaged in daily stand-ups, sprint planning, and meetings as part of the **Agile development process**.
- Strong oral and written communication abilities with the capacity to convey technical concepts to non-technical people.
- I have a strong ability to assess complex situations and identify the root cause of a problem and I am a strong communicator who can effectively collaborate with others.

Academic Projects

Full Stack developer, Master's Project

Created a Standalone, Web Application, and Database for Computer Wholesale Business:

- Collaborated with employees and management to gather requirements, ensuring alignment with organizational needs.
- Developed and designed a comprehensive database system using MS Access to streamline data management and increased customer satisfaction to 85%.
- Designed and implemented a robust database structure within **Microsoft Access**, ensuring efficient data storage and retrieval for the wholesale business.
- Utilized **HTML**, **CSS**, **JavaScript**, and Angular framework to create an intuitive and user-friendly web interface.
- Integrated **Angular** for dynamic content rendering, improving the application's responsiveness and interactivity.
- Employed HTML, CSS, and JavaScript to craft an engaging and visually appealing user interface, enhancing user experience and usability.
- Implemented data handling protocols and security measures within MS Access to protect sensitive business information.

Front-End Developer

Created a mobile application for reserving parking lots in highly demanded areas:

- Developed the front-end of a mobile application using **HTML**, **CSS**, **Bootstrap**, and **media queries** to ensure a responsive and mobile-friendly user interface.
- Translated **UI/UX** designs into code, leveraging **CSS**, **Bootstrap**, and **Flexbox** to create an intuitive and visually appealing interface for parking lot browsing and reservation.
- Utilized **media queries** and responsive design principles to ensure seamless functionality and optimal display across various devices and screen sizes, enhancing user experience.
- Integrated **Angular framework** to enhance application interactivity, ensuring smooth navigation and real-time updates for parking availability and reservations.
- Implemented **JavaScript** functionalities for dynamic content rendering, form validation, and interactive elements to improve user engagement and usability.
- Leveraged **Flexbox** for layout structuring, improving the application's flexibility and enabling consistent alignment and positioning of elements across different screen sizes.