VINAY KANCHARLA

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Summary

Highly motivated and detail-oriented Software Engineer with around 1 years of 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, JavaScript, Python
Front-End Development – HTML5, CSS, Bootstrap, React.js
Back-End Development- Node.js, Express.js
DevOps: Jenkins, Docker, Terraform, GitLab, Ansible, Kubernetes
Cloud Computing: AWS EMR, EC2, S3, VPC, IAM, Route 53, Redshift, Athena, Lambda Functions, CloudFormation, CloudWatch
Database – MySQL, MS Access
Version Control – Git, GitHub
API Development- RESTful API, Authentication (JWT, OAuth)

Certifications

Certified Web Professional   OCT 2021 – OCT 2024
AWS Certified DevOps Engineer – Professional (Expected Completion: Dec 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- PRESENT

- 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.
- Developed reusable Terraform modules to enforce infrastructure consistency and reduced manual intervention by 80%.
- Implemented rightsizing of EC2 instances and optimized storage costs by transitioning to more cost-effective S3 storage classes.
- Designed and implemented CI/CD pipelines using GitLab to automate the build, test and deployment process of C# and Angular applications, reducing deployment times by 30%.
- 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.

- Integrated **TypeScript** with front-end frameworks like **React**, optimizing component reusability and state management.

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.
- Followed Software Development Lifecycle best practices, from requirements gathering and analysis to design, implementation, testing, and deployment.
- Managed project tasks and sprints using **Jira**, facilitating transparent and efficient team collaboration.
- Designed and executed comprehensive API test suites using **Postman**, ensuring reliability and performance of **RESTful services.**
- Strong oral and written communication abilities with the capacity to convey technical concepts to non-technical people.

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.
- Assisted in the development of web applications using **TypeScript**, focusing on code quality and maintainability.
- 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

- 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.