SYED WAJIH RIZVI

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PROFESSIONAL SUMMARY

Full-Stack developer with experience building scalable applications using React, Typescript, NodeJS, and Django. Proficient in designing RESTful APIs integrated with relational and non-relational databases, implementing responsive front-end components, and optimizing backend services for performance. Adept at leveraging Python for automation testing, ensuring reliable and efficient software solutions.

RECENT PROJECTS

GameCom | ReactTS, NodeJS, MongoDB

2025

- Developed a web platform providing detailed information on millions of video games leveraging React (Typescript), Node.js, and MongoDB
- Build and optimized **RESTful API** endpoints with **Express.js**, achieving 70% faster response times by streamlining CRUD operations and query performance
- Connected to MongoDB using Mongoose, implementing asynchronous queries and optimizing database operations to improve load times
- Utilized React Ouery to implement infinite queries, cache API responses, and reduce network usage by 90%
- Designed fluid, responsive animations using Framer Motion, enhancing user engagement and delivering modern UX
- Developed custom **React Hooks** for efficient data fetching from IGDB, resulting in **real-time** updates
- Implemented JWT-based authentication to secure restricted endpoints ensuring robust protection against unauthorized access

CScape | ReactTS, NodeJS, MongoDB, Python

2024

- Built a website that provides information on millions of cities worldwide, enabling users to plan customized tourist trips
- Integrated Google Places API to fetch real time data on destinations, including restaurants, hotels, and amusement parks
- Developed reusable, highly performant React components using MaterialUI, ensuring a seamless user experience
- Leveraged OpenWeather API to display live weather data and 7-day forecasts for any city
- Utilized **Zustand** to manage global state efficiently, preventing **prop drilling** and improving **component scalability**
- Integrated OpenAI's API to dynamically generate city descriptions, enhancing user engagement with personalized content
- Designed a scalable **MongoDB** schema with optimized queries using **Mongoose** for fast and efficient data retrieval
- Implemented JWT-based authentication to secure user login and restrict access to certain CRUD operations
- Used Google's Distance Matrix API for an optimized Traveling Salesman algorithm, reducing travel time and distance
- Developed a responsive layout compatible with mobile, tablet, and desktop devices, ensuring accessibility across platforms

Apple iPhone 16 Showcase | ReactTS, HTML, CSS

2024

- Developed interactive iPhone models using **ThreeJS** which could be modified based on size, color, and variant
- Utilized Vanilla Javascript to build video carousels with beautifully animated progress bars and proper control buttons
- Improved performance by nearly 60% though a reusable responsive image component that dynamically rendered optimized images based on screen width
- Utilized GSAP to build seamless animations and transitions for visually appealing user interface

WORK EXPERIENCE

Ford Motor Company | FNV4 Lead Software Automation Engineer

2023-Present | Kanata, ON

- Developed and managed over 900 total test cases using Python's Slash Testing Framework that adhered to software release requirements which covered multiple cloud connectivity components for Ford's FNV4 Vehicles
- Streamlined dozens of **Jenkins** Pipelines for multiple components which covered functional, integration, and hardware tests
- Maintained a component code coverage of over 90% and a branch coverage of over 95% on all product code
- Provided 100% rainy day coverage across all testing requirements
- Reduced code duplication to under 2% across multiple components with nearly 50K total lines
- Automated system level tasks with Python to interact with the Linux environment for improved productivity
- Worked with ara. Com library to utilize proxies in test cases as well as mock skeletons to perform several test scenarios

Managed test case information and tracked results with **TestRails** and followed appropriate defect lifecycle using **JIRA**

Ford Motor Company | Embedded Bluetooth Software Automation Engineer

2021-2023 | Waterloo, ON

- Developed test cases that covered various Bluetooth protocols using Python's Slash Testing Framework
- Programmed unit tests in Python to mock several API calls and ensure a minimum 90% code coverage
- Optimized Jenkin nodes to improve Sanity run time by nearly 28%
- Developed APIs and CLI tools that provide several text analysis methods for log files
- Debugged automation scripts through log files, breakpoints, and GUI inspection
- Utilized **Appium** to conduct automation tests and analyze **android** applications