Yash Bhavsar

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SKILLS

Languages: JavaScript | TypeScript | Python | C | C++ | Java | Linux | HTML | CSS
Frameworks/Libraries: React.Js | Express.Js | Node.Js | numpy | Tkinter | matplotlib
Developer Tools: GitHub | MongoDB | Postman | Perforce | VSCode | Jira | Confluence

EXPERIENCE

Quality Assurance Engineer Intern | AMD   May 2023 – Apr 2024

- Spearheaded LINT-based code analysis to evaluate coding style and quality within the repository, ensuring readability and adherence to industry standards under strict deadlines
- Implemented automated nightly LINT checks using C Shell, transforming the assessment of code integration and increasing workflow efficiency by saving hours of time previously spent on manual command line operations
- Utilized Python, Linux, and Perl to identify inconsistencies in macros and port connections, resulting in a 30% reduction in code review time by automating the identification of redundant and critical code segments

Technical Representative | Grey-Bruce Telecoms   July – Sept 2022

- Identified and managed 50+ client issues involving hardware (router, PoE, CPE, towers) and cable faultiness
- Initialized wireless/fiber connections on administrative side by accessing IP addresses and local towers

PROJECTS

Personal Project Manager   Sept – Oct 2023

- Designed a React based front-end that excels with modular components, harnessing global state management, and utilizing routing to deliver a live data-handling, responsive, and engaging user experience for managing and keeping track of projects
- Built a robust back-end facilitating the management of CRUD manipulated data using Node.js, Express.js, and MongoDB Atlas
- Engineered RESTful API endpoints, maintaining data integrity through a structured Mongoose schema, comprehensive error handling and middle-ware

Withdrawal Monitor   Sept 2022 – Apr 2023

- Applied React libraries to create a front-end authentication page, utilizing react-router-DOM for navigation, hooks for form submission, and bootstrap for form and function of the web application
- Developed asynchronous HTTP requests through fetch calls, enabling user management, and ensuring security through session storage checks

Calculator App   Dec 2022

- Designed a React-based Calculator App that handles 14 advanced mathematical operations
- Implemented various math functions using the Math.Js library and state management with useState hook
- Applied OOP principles to organize and structure the code and bootstrap to enhance the user interface

Collatz Conjecture Visualizer   Dec 2022

- Created a professional and visually appealing graphical user interface in Python using Tkinter and PIL libraries
- Utilized matplotlib and numpy to generate up to 5 visualizations of a Collatz Sequence based on user input
- Adhered to event handling, input validation, and modular design principles, enhancing functionality of program

3D Hallway Mapper   Mar – Apr 2022

- Engineered an embedded C program for a microcontroller, using I2C communication, sensor initialization, precise distance measurements, and motor control to create a cohesive model of the surrounding area
- Created a Python script for visualizing data from microcontroller through UART communication and matplotlib, including data storage, organization options, and 3D scatter plot visualization

EDUCATION

McMaster University   Sept 2020 – May 2025

B.Eng in Electrical Engineering & Co-op
Relevant Coursework: Data Structures and Algorithms | Principles of Programming