

YASH BHAVSAR

Seeking 2024 **Software Engineering** Internships

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yashexe.github.io/Yash-Bhavsar-s-Portfolio

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SKILLS

Languages

JavaScript

Python

C/C++

Frameworks

React

Node

Express

Dev Tools

Git

MongoDB

VSCode

EXPERIENCE

Silicon Design Engineer Intern | AMD

May 2023 – Apr 2024

- Spearheaded VC SpyGlass LINT checks to evaluate coding style and quality within the repository, ensuring adherence to industry standards and best practices
- Developed and implemented automated checks using Python and C Shell scripting, revolutionizing the assessment of project versions' compliance and increasing workflow efficiency
- Leveraged Linux-based procedures and run commands to identify and rectify inconsistencies in macros and port connections, significantly improving chip design validation

Technical Representative | Grey-Bruce Telecoms

July – Sept 2022

- Identified and solved variety of 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

Project Lister

Sept – Oct 2022

- Developed a robust Node.js back-end using Express.js, facilitating the management of CRUD manipulated data stored in a MongoDB database
- Implemented RESTful API endpoints, maintaining data integrity through comprehensive routing and middle-ware
- Realized a React based front-end that excels with modular components, harnesses global state management, and utilizes routing to deliver a dynamic and engaging user experience

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
- Implemented asynchronous HTTP requests through fetch calls, allowing for user management, and security through session storage checks

Calculator App

Dec 2022

- Designed a React-based Calculator App using HTML/CSS, and JavaScript
- Implemented various math functions using the MathJs library and utilized state management with useState hook
- Applied OOP principles and bootstrap to organize and structure the code and 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
- Developed various visualizations of the Collatz Conjecture using matplotlib and numpy
- Adhered to event handling, input validation, and modular design principles, enhancing functionality of program

3D Hallway Mapper

Mar – Apr 2022

- Utilized C for configuring digital I/O and I2C on a microcontroller and reading LiDAR sensor data
- Created a Python script for visualizing data from microcontroller through UART 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