Seeking Summer 2024 Internship

Yash Bhavsar

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Education

McMaster University — Expected Graduation, May 2025
B.Eng in Electrical Engineering & Co-op — *Hamilton, ON*

Technical Skills

Languages: C/C++, Python, JavaScript/TypeScript, Verilog, HTML/CSS, MATLAB, R
Frameworks: ReactJs, NodeJs, ExpressJs
Developer Tools: Git, Perforce, VS Code, Eclipse, MongoDB
Libraries: Tkinter, NumPy, Matplotlib

Experience

Silicon Design Engineer Intern — May 2023 – Apr 2024
AMD — *Markham, ON*

- Executed VC SpyGlass LINT checks to assess poor coding style within the repository
- Automated various checks using Python and C Shell, providing developers with streamlined and efficient assessments of project versions' compliance and viability
- Enhanced chip design validation through the detection of inconsistencies in macros/port connections with Linux-based procedures and run commands

Technical Representative — July – Sept 2022
Grey-Bruce Telecoms — *Owen Sound, ON*

- Identified and solved variety of client issues involving hardware (router, PoE, CPE, towers) and cable faultiness
- Initialized wireless/fibre connections on administrative side by accessing IP addresses and local towers

Projects

Calculator App | *Self-Taught* — 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 | *Self-Taught* — 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

LiDAR-Based 3D Mapper | *Self-Taught* — Mar – Apr 2022

- Developed a C program for configuring digital I/O and I2C on a microcontroller and reading LiDAR sensor data
- Created Python script for visualizing data from microcontroller through UART and matplotlib, including data storage, organization options, and 3D scatter plot visualization
- Improved user controls for starting/stopping the program and providing feedback built-in LEDs

Automated System for Sterilizing Surgical Tools | *Software Developer* — Jan – Mar 2021

- Developed a sophisticated robotic arm control system using Python, incorporating OOP, exception handling techniques, and decision-making using EMG sensors
- Enhanced functionality to allow for precise movement and gripper/autoclave control based on inputted ID numbers

Extracurricular

Maction Potential | *Software Developer* — Nov 2022 – Apr 2023

- Applied React libraries to create a full-stack authentication page, utilizing React Router DOM for navigation, hooks for form submissions, and bootstrap for form and function of the web application
- Implemented asynchronous HTTP requests through fetch/POST to make RESTful calls, allowing for user management, and security through session storage checks