

# Yash Bhavsar

1-647-774-3765 | [yashbhavsar3602@gmail.com](mailto:yashbhavsar3602@gmail.com) | [linkedin.com/in/yash-bhav](https://www.linkedin.com/in/yash-bhav) | [github.com/yashexe](https://github.com/yashexe) | [yashexe.github.io](https://yashexe.github.io)

## TECHNICAL SKILLS

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**Languages:** Python, C, C++, JavaScript/TypeScript, Java, Perl, PHP

**Frameworks/UI:** React.js, Express.js, Node.js, OpenAI API, HTML/CSS, numpy, Tkinter, XML

**Developer Tools:** Linux/Unix, GitHub, MongoDB, Docker, Kubernetes, Postman, Perforce, Atlassian, SQL

## EXPERIENCE

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**AMD Inc.** | Software Engineer Intern May 2023 – Apr 2024

- Led LINT-based code review across 10+ long term projects, addressing 100+ critical errors across cross-functional teams while ensuring clear and maintainable code
- Developed and deployed autonomous nightly test software using C Shell, streamlining code design and testing, resulting in 20+ hours saved per week
- Implemented a dashboard utilizing PHP, JavaScript, and Perl, to present real-time test results fetched from a SQLite database, reducing the weekly workload by removing the need for manual updates

**Grey-Bruce Telecoms Inc.** | Technical Support Specialist 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 researching local towers

## PROJECTS

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**Personal Project Manager** Sept – Oct 2023

- Designed a React based front-end that excels with HTTP requests, DOM manipulation, and routing to deliver a responsive and engaging user experience for managing and keeping track of projects
- Engineered RESTful API endpoints, maintaining data integrity through a structured Mongoose schema, comprehensive error handling and middle-ware
- Built a robust back-end by managing CRUD manipulated NoSQL data using Node.js, Express.js, and MongoDB

**Autonomous Race-car** Jan – Apr 2023

- Developed an embedded ROS control system, utilizing a Linux environment for configuration, development, and testing, resulting in successful navigation through 4+ tested routes
- Implemented a self-driving algorithm with Python for feedback control, and Li-DAR data processing, and C++ for processing VESC state and IMU data to achieve precise speed and steering control

**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 a refined user interface
- Generated HTTP requests through fetch calls, enabling user management, and ensuring security with session storage checks

**Collatz Conjecture Visualizer** Dec 2022

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

**Autonomous Robotic Mapper** Mar – Apr 2022

- Engineered an embedded C program for a TI micro-controller, using I2C communication, sensor initialization, precise distance measurements, and motor control to parse raw Li-DAR data
- Created a Python script for organizing and visualizing data from micro-controller through UART communication and matplotlib, including data storage, organization options, and 3D scatter plot visualization

## EDUCATION

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**McMaster University** Expected Graduation, May 2025

*B.S in Electrical Engineering & Co-op*

*Hamilton, ON*

**Relevant Coursework:** Data Structures and Algorithms(C++), Principles of Object Oriented Programming(Python), Microprocessor Systems Project(C, Python), Signals and Systems(MATLAB)