

Nirmal Chaudhari

2nd Year Software Engineering | Seeking Summer 2023 Co-op

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SKILLS

Programming Languages: Python, Java, C, Bash, JavaScript, HTML, CSS, MATLAB, Verilog

Tools: GitHub, Node.js, React.js, PowerShell, Gatsby Cloud, VS Code, Quartus, IntelliJ IDEA, Simulink, Raspberry Pi, Git

EDUCATION

McMaster University

Sept 2021-May 2026

B.Eng. Software Engineering – Year 2 (GPA: 3.9)

Hamilton, ON

- Organization/Awards: McMaster Excellence Award, Dean's Honour List
- Relevant courses: 2OP3 (Object Oriented Programming), 2DA4 (Digital Systems), 2XC3 (Software Engineering Practices), 2C03 (Data Structures and Algorithms), 2GA3 (Computer Architecture), 2AA4 (Software Design I)

PROJECTS

Macademy

Personal Project

Aug 2022

- Developed a website to help students improve their studying habits using the **React.js** library, HTML5 and CSS3.
- Developed interactive components to improve user interface by writing object-oriented programs using **JavaScript**.
- Improved user satisfaction by updating site to ensure user data is regularly being saved to their **LocalStorage**.
- Enhanced site's performance by 26% by increasing efficiency, and regularly removing unnecessary components.
- Regularly pushed codes to a [GitHub repository](#) and used **Gatsby Cloud** to publish the pages under a domain name.

Q-Arm Sterilization

Programming Team Leader

Nov 2021-Dec 2021

- Programmed a Quanser Interactive Arm to identify, handle and sterilize various tools in surgical environments.
- Developed efficient Object-Oriented codes using **Python** that identify and place tools in various bins.
- Performed data analysis in virtual environments to improve performance by 30% by predicting physical simulations.
- Uploaded programs to physical arm by saving codes to a **Raspberry Pi** and connecting it to the Q-Arm.

WORK EXPERIENCE

Software For Love

Web Developer

Aug 2021-Present

- Collaborated with programmers in a professional environment to develop web applications for various clients.
- Developed user interfaces using **JavaScript** frameworks React.js and **Next.js**, which improved accessibility by 20%.
- Used **Node.js** to process incoming requests to databases and generate responses through backend development.

uClub

Frontend Developer

Jul 2022-Sept 2022

- Collaborated with people across North America to develop a new education platform.
- Developed appealing and user interactive webpages using the React.js library, **HTML5** and **CSS3**.
- Worked with the backend team to smoothly integrate frontend with backend components in the project.

MAC Formula Electric

Software & Vehicle Controls

Oct 2021-Jul 2022

- **Programmed** a car's microcontrollers to control and save various input values to registers using **C code**.
- Worked with various communication protocols to ensure the different components of the car are synced.
- Collaborated with others using **MATLAB** and **Simulink** to create programs using various cells in control systems.

Home Depot

Sales Associate

May 2022-Aug 2022

- **Collaborated** with management to manage inventory using MST Lite to improve merchandise accessibility.
- Actively found solutions to problems with various machinery by gaining a strong technical understanding of them.