

Arjun Karthik

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EDUCATION

McMaster University

Bachelor of Engineering Management - Software Engineering and Management

September 2021 – Present

Hamilton, ON

WORK EXPERIENCE

Software Engineering Intern

Veoneer

May 2024 – Present

Markham, ON

- Initiated and spearheaded the development of a **Next.js** and **Python** mobile application to send dispatches when a machine is broken down, reducing the time to report production line issues
- Led and organized an initiative to install and create production line dashboards using **PowerBi** that will be displayed on every line, ensuring that all production lines will be monitored effectively 24/7

Undergraduate Teaching Assistant - Cornerstone Design Projects

Faculty of Engineering - McMaster University

September 2023 – April 2024

Hamilton, ON

- Supervised and facilitated laboratory sessions for a group of **40** students, ensuring a safe and efficient learning environment
- Instructed students in **Python (Object-Oriented)** programming, and project management methodologies
- Graded student work in a timely and efficient manner, provided strong feedback in order to facilitate student growth

Software Developer Co-op

Transpire Technologies

May 2023 – August 2023

Mississauga, ON

- Led the design and deployment of a **WordPress** website for Urban Uniques, featuring an extensive catalog of **250+** products, leading to increased customer traffic by **50%**
- Contributed to the conceptualization and development of the website by actively participating in brainstorming sessions and proposing innovative ideas, leading to a **20%** increase in user engagement
- Designed, built and tested a mobile application, "PrepSkills QR Scanner," using **Dart** programming language and the **Flutter** framework with **100 000+** users
- Automated **100+** tests for the newly developed NSSL Shuntware website in **TypeScript** using the **Playwright** framework, improving efficiency of unit testing by **200%**

EXTRACURRICULAR INVOLVEMENT

Engineering and Management Student Ambassador

Department of Engineering and Management

March 2024 – Present

Hamilton, ON

- Promoted the engineering and management program through department sanctioned information sessions
- Represented the engineering and management at May at Mac, showcasing the program to incoming engineering students

Industry Night Co-Chair

McMaster Engineering and Management Society

May 2023 – April 2024

Hamilton, ON

- Managed intricate logistics, from venue arrangements to guest accommodations, ensuring a seamless experience for **100+ attendees** at the 7th Annual Industry Night
- Organized and led an executive team, delegating responsibilities effectively to achieve event objectives

Software Team Member - Prosthetics

McMaster Medical Engineering Design Team

September 2023 – April 2024

Hamilton, ON

- Developed and maintained **C++** software to control the mobility of a prosthetic arm with the joint library, ensuring precise and responsive functionality for end-users while meeting rigorous safety standards
- Implemented **Object-Oriented** design principles and design patterns to refactor and enhance existing code, resulting in improved code maintainability and scalability

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, HTML/CSS, TypeScript, Dart, MATLAB, SQL

Frameworks: React, Flutter, JUnit, Apache Commons CLI, Playwright, Maven, Next.JS, Flask

Tools: Git, VS Code, Visual Studio, IntelliJ, Eclipse, Android Studio, Azure DevOps, WordPress, Microsoft Office, JIRA