Arjun Karthik

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EDUCATION

McMaster University   September 2021 – Present
Bachelor of Engineering Management (B.Eng.Mgt) - Software Engineering and Management   *Hamilton, ON*

EXPERIENCE

Software Developer Co-op   May 2023 – August 2023
Transpire Technologies   *Mississauga, ON*
- Developed and deployed a **WordPress** website, meeting the client's business requirements and objectives while following good development practices
- Utilized a deep understanding of **IT technologies**, tools, and methodologies to accurately reflect and **document** the required expertise for each role at Transpire, for the **ISO 9001** certification process
- Developing a **Flutter** mobile application, using the **scrum** methodology to ensure efficient development
- Ensuring correctness of web applications in **TypeScript** using the **Playwright API**

Industry Night Co-Chair   May 2023 – Present
McMaster Engineering and Management Society (MEMS)   *Hamilton, ON*
- **Organizing** and **managing** logistics for the 7th annual Engineering and Management Industry Night, including itinerary development and prize planning
- Leveraging social media platforms (Instagram, TikTok) and coordinating with faculty to ensure maximum student turnout (**500+ Management Students**)
- Efficiently managing event budget, ensuring optimal utilization of resources and cost-effectiveness throughout the planning and execution stages

Outreach Team Lead   September 2021 – Present
McMaster Medical Engineering Design Team (MED-T)   *Hamilton, ON*
- **Organized** and **hosted** a **MATLAB** workshop for **100+ attendees**, introducing the fundamentals of how an electrocardiogram works and basic data analysis
- **Coordinated** and **co-hosted** a guest lecture event for **30+ attendees**, invited graduate school speakers to speak on their research in biomedical engineering

PROJECTS

Island Pathfinder | *Java, Maven, Apache CLI, Git*   January 2023 – April 2023
- Implemented **Dijkstra's Algorithm** to compute the shortest path between various points on a generated mesh
- Used **Object-Oriented Design** to generate a mesh of different properties that can be controlled via user input, using the **Apache Commons CLI library**
- Utilized **Git** for version control in project development
- Conducted widespread **unit testing** to ensure the correctness of implemented algorithms using **JUnit**

Personal Portfolio | *HTML/CSS, JavaScript, Git, React*   October 2022 – Present
- Built a personal portfolio using the **React JS** library and was deployed to the public via **GitHub Pages**
- Utilized **HTML**, **CSS**, and **JavaScript** in tandem to create an engaging and interactive user interface
- Integrated the **EmailJS API** for direct contact functionality

CERTIFICATIONS

Big Data, Hadoop, and Spark Basics by IBM   June 2022
- Demonstrated proficiency in fundamental concepts and technologies of **Big Data** processing
- Acquired knowledge of the **Hadoop** ecosystem and **Apache Spark** for data analytics and processing

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, HTML/CSS, TypeScript, Dart, MATLAB
Frameworks: React, Flutter, JUnit, Apache Commons CLI, Playwright, Android SDK
Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Android Studio
Other: AutoDesk Inventor, SolidWorks, Microsoft Office, WordPress