ANJALI **KOSURI**

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HIGHLIGHTS OF QUALIFICATIONS

- Highly proficient in Python, C, C++, Java, HTML, CSS, JavaScript, Mbed OS and MS Office.
- Knowledgeable with Angular, SQL, Git, Selenium, MATLAB, Simulink and Autodesk Inventor.
- Demonstrate strong analytical skills and effective communication - both one-on-one interactions and group discussions.
- Place a high value on meeting deadlines, achieved through effective time management.
- Display a high degree of integrity, dedication, and reliability by consistently meeting both personal and group deadlines.

EDUCATION

Bachelor's Degree in Mechatronics and Biomedical Engineering (Level IV) - McMaster University **September 2021 - Current**

Hamilton ON, Canada | CGPA: 11.8 out of 12 | Deans' Honour List 2021-2022, 2022-2023, & 2023-2024

- Relevant coursework: Data Structures & Algorithms, Software Development, Embedded Systems, Analog & Digital Circuits, Computational Statistics, Calculus I-IV, Linear Algebra

WORK EXPERIENCE

McMaster University **September 2024 - December 2024**

Math Help Centre Teaching Assistant | Hamilton, ON

- Support students in understanding core calculus concepts, and using Python to solve math and statistics problems.

Scotiabank **May 2024 - August 2024**

Junior Software Developer Intern | Toronto, ON

- Developed code to upgrade a .NET + Angular web portal, resolving software currency issues by creating an API for user credential retrieval via active directory querying and integrating Windows Authentication to replace outdated authentication protocols.
- Led presentations on Google Cloud HDE, AI, and Gemini, conducting demos for PyTorch computer vision and Gemini API integration.
- Maintained an application profile, technical design document, and certificate requests to enhance project security and documentation.
- Developed proposal slides with cost analysis and vendor comparisons to support business decisions.

University Health Network **May 2022 - August 2022**

At-The-Elbow, Technical Support Co-op | Toronto, ON

- On-site support for hospital staff during the rollout of the medical records software "Epic", in a fast-paced environment.
- Provided direct support to staff in using the software, and served as a liaison for filing support tickets via ServiceNow.

PROJECTS

Personal Portfolio Website | *HTML, CSS, Javascript, Bootstrap* **December 2023 - Current**

- Maintain a personal portfolio website leveraging HTML, CSS and Javascript to showcase an array of skills and project experiences.
- Used Bootstrap to facilitate the implementation of standardized and dynamic webpage styling techniques.
- Employed media query techniques to ensure responsiveness of the webpage, allowing for seamless page resizing and compatibility across a wide range of screen sizes and device types.

Safety-Critical Pacemaker System | *Python, MATLAB Simulink* **September 2023 - December 2023**

- Applied Simulink and Python to implement pacemaker modes which communicate with an external DCM through serial communication.
- Implemented hardware abstraction to facilitate easier maintenance and ensure modularity in the system design.
- Gained experience adhering to rigorous software development life cycle procedures, including thorough documentation practices and hazard analysis methods to ensure the reliability and safety of the system.

McMaster Grades Visual Dashboard App | *Python, Selenium* **August 2023**

- Developed a Python-based application integrated with Selenium to extract final grade data from McMaster University's grades website.
- Used the Tkinter library to create interactive elements including a login screen, splash screen, user menu, and grade display page.

Reinforcement Learning Program for Cart-Centering Problem | *C++* **April 2023**

- Developed a C++ solution using stacks and binary trees to generate mathematical expressions for controlling a cart's movement.
- Implemented reinforcement learning to optimize expressions to achieve more efficient cart-centering control.