SHAHED ISSA

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EDUCATION

University of Calgary   Calgary, AB
Bachelor of Science in Software Engineering, Minor in Mechatronics; GPA 3.621   *September 2022 – April 2027*
- Awards: PURE 2024, Dean's List 2023, Louise McKinney Scholarship 2023, Gwyn Morgan "Be an Engineer" Award 2023, Diversity Champions in Engineering Award 2022

SKILLS

- **Languages**: Python, C, C++, HTML, CSS, SQL, Java, Javascript, JSX
- **Frameworks**: React, Figma, Arduino, Node.js, Flask, Tailwind, Eclipse, MySQL, Git/Github, Unity, Cedar and Niagara Supercomputers

WORK EXPERIENCE

Schulich School of Engineering   Calgary, AB
Undergraduate Student Researcher   *May 2024 - Current*
- Developed pipelines to run various tasks through different large language models using high-performance clusters.
- Performed syntactic, semantic, and qualitative analysis using Python Pandas, transformers library, and other metrics.

TechStart - CraftXR   Calgary, AB
UI/UX Developer   *September 2023 - April 2024*
- Developed 3D assets using Blender, Ready Player Me, and Mixamo, and integrated them into interactive scenarios with the Unity game engine.
- Implemented game logic and UI/UX design to enhance user interactions and bring 3D environments to life.
- Architected a solution using Unity, SteamVR, ORAMAVR, and Azure cloud services to support extended reality training simulations in healthcare.

Sculich Unmanned Aerial Vehicles   Calgary, AB
Web Development Team Lead   *June 2024 - Present*
- Led the web development team in creating a ground control system to display real-time drone metrics and manage flight operations.
- Coordinated the integration of a communication system with RocketM5 and 5.8G antennas for long-distance connectivity between the drone's Raspberry Pi and the GCS.

Full Stack Web Developer   *September 2023 - June 2024*
- Developed a ground control system to display real-time drone metrics (ground speed, vertical speed, altitude) and control the drone, including real-time photo and coordinate transmission for precise item drops.
- Created a web application using HTML, CSS, JavaScript, and Python (Flask), providing a user-friendly interface for flight operations, onboard electronics control, and data processing.
- Implemented a robust communication system using RocketM5 for long-distance datalinks, ensuring reliable connectivity between the drone's onboard Raspberry Pi and the GCS.

PROJECTS

Dynamic Subway Information System: Developed a Java app simulating Calgary's subway screens using Java Swing, featuring real-time train data, rotating ads managed in a MySQL database, and daily weather reports retrieved from an API.

Personal Portfolio: Developed a personal portfolio using React, Tailwind CSS, and Framer Motion, showcasing proficiency in responsive web design, front-end development, and dynamic UI animations, while designing and optimizing the user interface with responsive layouts to ensure a consistent experience across various devices.

Disaster Relief Service: Developed a disaster relief management system in Java with modules for victims, workers, and medical records, using OOP and an optimized SQL database for efficient data handling.