

ISHA HAIDER

SOFTWARE DEVELOPER INTERN

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CAREER SUMMARY

Driven software engineering student with hands-on experience in C#, C/C++, Python, and web technologies such as React and Node.js. Proven ability to lead and collaborate effectively, demonstrated through roles as a Software Development Intern at Arcurve, Telemetry Software Developer, and Co-President of Edu Dialect. Eager to contribute technical skills and innovative thinking in a dynamic internship, with a strong foundation in software development, DevOps, and leadership.

CORE QUALIFICATIONS

Development C/C++ | Python | Java | Node.js | C# | RISC-V | GNU Make | GCP | Kubernetes | Ansible | Docker | Maven | Verilog | Microsoft Azure | React | JavaScript | CSS | Tailwind CSS | Angular | AWS | HTML | Terraform | TypeScript
Technologies Unity | MySQL | PostgreSQL | VS Code | XCode | Quartus | Linux | MPLAB X | Arduino | Jupyter Notebook | JUnit
Soft Skills Public speaking | Multitasking | Project Management | Taking initiative | Fast learner | Deadlines | Accountability

EDUCATION

Bachelor of Science – Software Engineering Major, Mechatronics Minor

Aug 2021 – Jun 2026

Schulich School of Engineering, University of Calgary

- Courses:** Data Structures & Algorithms | Full-Stack Web Development | Embedded Systems | OOP | Computer Organization | Digital Circuits | Digital Logic | Statistics and Machine Learning | Networks | OS | Software Testing
- Honors and Awards:** Dean's List [x2] | NSERC USRA | Jason Lang Scholarships [x2] | Women in STEM Scholarship | Digital Citizenship Graduation Award | Diversity Champions in Engineering Award

PROFESSIONAL EXPERIENCE

Software Developer Intern

May 2024 – Expected: Dec 2024

Arcurve Inc.

Calgary, AB

- Developed a **tool** that can compare data between 2 or more environments coming from over 10 schemas and 1,000 tuples, ensuring it is identical and reporting all discrepancies. This tool **automated** 40% of the QAs testing methods.
- Designed and implemented software for TC Energy to manage and visualize pipeline data, leveraging PostgreSQL for data management and **Python** for backend processing. The deployment was orchestrated using AWS Cloud Development Kit (**CDK**) and integrated with **Power BI** for advanced data analytics and reporting.
- Hosted and **led** a 24-hour hackathon of over 80 participants, labelled as one of the **most well-led** and intricate Corporate Social Responsibility projects at Arcurve.

Co-President and General Manager

Sep 2021 – Present

Edu Dialect English Language Program [Student-Led]

Remote

- Publicized the global organization from scratch and registered over **200** students and volunteers from **5 countries** by recruiting and **leading** effective marketing, internal/external affairs, volunteer/student coordinating, country ambassadors, and finance teams
- Enhanced members' **intercultural awareness** and successfully **raised funds** for children's charities in **3 countries** by providing leadership and learning opportunities for volunteers and students
- Demonstrated **project management** skills by overseeing, scheduling, and executing tasks to ensure smooth operation
- Developed a dynamic **Web Application** (<https://github.com/Sabayara82/edu-dialect-app>) using React, HTML, and Tailwind, featuring a user login system and intuitive interface to provide global connectivity and streamline course objective management.

Telemetry Software Developer

Dec 2022 – May 2024

Solar Car Team, University of Calgary

Calgary, AB

- Enhanced the existing data analysis algorithm to be more **modular**, repeatable, and adaptable to changes.
- Improved** team performance by designing and implementing a rigorous **recruitment** process and conducting interviews, resulting in improved leadership and overall efficiency among the new recruits of the Software Team
- Facilitated seamless communication between the vehicle's hardware and software by **transmitting, analyzing, and presenting data** to the **Telemetry Server**: <https://github.com/UCSolarCarTeam/Helios-Telemetry>

- Managed the **Public Facing Website** (<https://github.com/UCSolarCarTeam/Solar-Car-Website>) and the business portal, utilizing Angular.js to ensure an engaging and user-friendly online presence
- Implemented Agile/Scrum development practices by using JIRA for planning, tasks, and progress reporting

Undergraduate Research Assistant

May 2023 – August 2023

Schulich School of Engineering, University of Calgary

Calgary, AB

- Formulated a strategy to enhance mandibular reconstruction by overseeing a collaborative robot device using **haptic and visual guidance**
- Implemented camera detection through ArUco Markers, head tracking with OpenCV, and application rendering with Unity.
- Conducted research under supervision of Dr. Jay Carriere for Mechatronics Engineering in Surgery, funded by NSERC USRA

PERSONAL PROJECTS

Tetris Game – <https://github.com/IshaHaider/Tetris>

August 2024

- Developed a fully functional Tetris game in **C++** using **object-oriented programming (OOP)** principles, emphasizing modular and maintainable code with added features such as a scoring system and a game-over screen.
- Implemented core **game mechanics** including piece rotation, collision detection, and line clearing algorithms, along with integrating game logic with a real-time game loop, handling frame updates and user inputs efficiently
- Designed a graphical user interface (**GUI**) with the help of **SFML** to render game elements, display score, and manage user input.

Embedded Systems LED Controller – <https://youtu.be/IP5TtW9Qeco>

December 2023

- Employed the **PIC24F16K101 microcontroller** for the precise control of LED brightness or intensity, connected to pin 12, and presented the results using **Python** in **Spyder**. The application integrates push buttons linked to input ports RA2, RA4, and RB4, utilizing **UART** and **Timer** peripherals within the **MPLAB IDE** to capture voltages and regulate LED delays.

Obituary-AI Web Application – <https://github.com/IshaHaider/Obituary-AI>

April 2023

- A **React.js** application that utilizes **ChatGPT API** for profile generation, **Amazon Polly** for speech synthesis, and **Cloudinary API** for storage. AWS services such as DynamoDB and Lambda handle backend data management and serverless functions, respectively. Python is employed for scripting, and infrastructure provisioning is managed through Terraform.