

Arfaz Hossain

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Education

Bachelor of Software Engineering

Sep 2021 – Present

University of Victoria

Victoria, BC

Expected Graduation: August 2026

Selected Projects

Ground Support System

Jul 2023 – Present

GitHub: UVicRocketry/Ground-Support

Victoria, BC

- Collaborated with a team of 10-15 developers in developing a telemetry visualization and post-flight analysis tool for rockets through weekly sprint planning sessions
- Implemented 15+ Material-UI components using React-TypeScript following dynamic UI, enhancing adaptability and usability across diverse rocket configurations
- Incorporated design patterns including *Microservice Architecture* and *Entity-Based Design* using MongoDB, streamlining backend development and database interaction

Rubik's Cube (3D Simulation)

Feb 2023 – June 2023

GitHub: arfazhxss/OpenGL-projects

Victoria, BC

- Developed a 3D simulation utilizing OpenGL libraries GLUT, GLFW, and GLM, incorporating advanced graphics rendering techniques through GLSL Shader Language for visualizations and mathematical operations
- Implemented intuitive keyboard and mouse controls, including precise cube rotations with keys such as L, J, I, K, and dynamic zoom functionalities with keyboard shortcuts

Simple Weather Application (iOS)

Apr 2023 – Nov 2023

GitHub: arfazhxss/Weather-Application

Victoria, BC

- Developed an iOS application using Swift programming language with a strong emphasis on object-oriented programming principles, ensuring a modular and maintainable codebase.
- Implemented a user-friendly interface that seamlessly integrates with OpenWeather API, allowing users to effortlessly access and navigate through accurate weather information for their current city.

Experience

Graphics Coordinator

Jan 2023 – Present

Engineering Student's Society (ESS)

Victoria, BC

- Designed and illustrated a total 15+ posters and 20+ social media posts while managing office hours to ensure the availability of the student lounge
- Co-ordinated regularly with Vice-President Communications in conveying information about events and services to the engineering student body, maintaining websites, social media accounts and distributing posters on university campus

Technical Skills

Languages: Java, Python, SQL (Postgres), JavaScript, TypeScript, HTML/CSS, R

Frameworks: NodeJS, ReactJS, JUnit, MongoDB, Express

Databases: MySQL, PostgreSQL, MongoDB

Developer Tools: Git, Docker, GitHub Actions

Libraries: React, Express, NumPy