

# Arfaz Hossain

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[www.arfazhxss.ca](http://www.arfazhxss.ca)

## EDUCATION

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### Bachelor of Software Engineering

University of Victoria

Sep 2021 – Present

*Victoria, BC*

## PROJECTS

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### Ground Support System

UVicRocketry/Ground-Support

Jul 2023 – Present

*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 Mongoose, streamlining backend development and database interaction

### Rubik's Cube

arfazhxss/opengl-projects

Feb 2023 – June 2023

*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

## EXPERIENCE

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### Graphics Coordinator

Engineering Student's Society (ESS)

Jan 2023 – Present

*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

### Customer Service Desk

Save-On-Foods Tillicum

Oct 2021 – Sep 2022

*Victoria, BC*

- Worked in a team of 6 to 12 members, overseeing store operations, ensuring daily needs were met with demonstrated exceptional customer service by addressing 50 inquiries per shift
- Maintained optimal inventory levels and merchandise availability by efficiently managing stock records and timely merchandise rotations, resulting in a 7% reduction in stock shortages

## SKILLS

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**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