

## Skills

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**Languages:** Python, Java, C, C++, JavaScript, SQL, HTML/CSS

**Technologies/Libraries:** POSIX OS API C/C++, BS4, Matplotlib, NumPy, Flask, docstrings, Jinja, Docker, PostgreSQL

## Technical Work Experience

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### Software Developer - Falcon Technologies

May - June 2021

- Developed an end to end mortgage API in Python with ETL and stored data in a PostgreSQL database
- Automated data updates to PostgreSQL database and created a basic html interface to view API

## Projects

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### Unreal Engine Commercial Flight Tracker - C++, Unreal Engine, SQLite - [Github](#)

- Using Unreal Engine, deployed an application that integrates Cesium and the Google Maps API to simulate the position of a user selected, live-flight, commercial aircraft on the globe.
- Flight data is collected from the FlightRadar24 API to display flights to the user, and translated to application coordinates to determine a plane's location on the Cesium globe.

### Web Database Interface - Flask, Sqlalchemy - [Github](#)

- Designed a SQLite database interface through Flask and Jinja templating
- Capable of uploading images and editing existing data
- Created authentication system with individual user accounts

### "Quality Screening" Single Player Game - Java - [Github](#)

- Designed an original level based game with team collaboration through Gitlab
- Created UML diagrams and mockups for requirement engineering and design following Gang of Four Design patterns
- Wrote and ran JUnit tests through Maven with 70% line coverage.

### Custom Linux Shell - C - [Github](#)

- Learned sys/types.h and unistd.h libraries to create child processes and execute non built-in commands
- Shell supports new built-in commands and functionality such as time logs and inner environment variables

### Discord Market Price Bot - Python - [Github](#)

- Designed a market bot that displays prices of in-game items and charts price history and trends
- Displays data through Discord embeds and image price charts updating every hour automatically
- Data was scraped using BeautifulSoup Library and integrated with Discord.py Library

## Education

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### Bachelor of Applied Science - Simon Fraser University

September 2021 - June 2025

- SFU Alumni Scholarship (2022)
- Top 25% Senior Canadian Computing Competition award (2021) - Ranked 226 out of 2920 Contestants (Top 8%)
- BC Achievement Scholarship (2021)
- BC District/Authority Scholarship (2021)