

Elwin Shen

Software Engineer

🌐 ElwinCoding | ✉ Elwin1@ualberta.ca | in Elwin Shen | ☎ (+1) 587-501-4115

Skills

Languages: Python, Java, JavaScript, SQL, HTML

Dev. Tools: Firebase, Git, JUnit, Docker, MongoDB, REST

Education

Bachelor of Science - Computer Science

2021 - 2025

Edmonton, AB

- Coursework: Software Engineering, Relational Databases, Computer Architecture, Human Computer Interaction, Algorithms, Software Testing, Web Architecture

Associate Degree - Mechanical Engineering Technology

2018 - 2020

Edmonton, AB

- Coursework: AutoCAD Design, Material Testing, SolidWorks Modeling, Machinery Dynamics

Technical Projects

Inventory Tracking App with Firebase

Language: Java

- Created comprehensive test suites including unit tests and system tests
- Used Firebase for data storage and user authentication/registration
- Applied Agile software development techniques such as SCRUM and sprints
- Experience with Git and version control, including commits, branching and merge conflicts

Virtual Market Tracker Bot using Discord API

Language: Python

- Developed custom Discord bot to track in-game market using Python, Discord API and Runelite API
- Set up SQL database to store market information
- Implemented margin calculator to determine highest ROI trades
- Generated the equivalent of \$200+ USD

Multi-task Game AI

Language: Java

- Developed and maintained various automated scripts to perform in-game tasks
- Utilized behavior trees and finite state machines for complex in-game situations
- Designed user friendly interface following Human Computer Interaction conventions
- Saved 100+ hours by increasing player automation and efficiency

Experience

Barista/Cashier

Sept 2016 - Present

UASU, Edmonton

- Demonstrated a strong work ethic and a proactive approach to problem-solving independently
- Attend to 300+ customer demands daily, ensuring full satisfaction

Lifeguard/Instructor

July 2016 - August 2021

City of Delta, Delta

- Developed and implemented lesson plans to meet individual swimmer needs and progress
- Work efficiently with a team of lifeguards to ensure patron safety