

Elwin Shen

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Skills

Languages: Python, Java, Javascript, HTML/CSS, C, C++, SQL, RISC-V

Frameworks: Django, JUnit, Vue.js, Tailwind CSS

Tools: Git, Docker, Figma, Firebase, Bash, Microsoft Office, Google Colab, AutoCAD, SolidWorks

Education

Bachelor of Science - Computer Science | Minor: Economics

Sept 2021 - April 2025

University of Alberta

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

Associate Degree - Mechanical Engineering Technology

Sept 2018 - Dec 2020

Northern Alberta Institute of Technology

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

Technical Projects

GainsConnect | *Python, Javascript, HTML, Django, Vue, PostgreSQL*

Sept 2024 - Dec 2024

- Developing a full-stack distributed social network app using Django and Vue
- Implementing REST API to allows users to create, edit, delete, like and comment on posts
- Stored application data using PostgreSQL database deployed on Heroku
- Collaborating with 3 other teams to share user data between each team's server

Software Quality Enhancements | *Java, Gradle, Docker, Git*

Jan 2024 - April 2024

- Created test suite using Unit Tests, Integration Tests, System Tests, Mutation Tests and AB Testing
- Implemented Continuous Integration and Deployment through GitHub actions and self-hosted runner
- Performed static analysis with SpotBugs, ErrorProne and PMD
- Examined technical debt and existing issues using SonarQube

EZGuard | *Java, Firebase, Gradle, Git*

Sept 2023 - Dec 2023

- Developed an Android app where users can take pictures to keep track of inventory
- Implemented a barcode scanner to automatically fill in description details regarding the item
- Leveraged Firebase for data storage and user authentication/registration
- Applied Agile techniques and utilized SCRUM practices and sprints

OS Flipper | *Python, SQLite*

Aug 2022 - Jan 2023

- Developed custom Discord bot to track in-game market using Python, Discord API and Runelite API
- Implemented margin calculator to determine highest ROI trades and generated \$500+ USD
- Stored market and item information using SQLite database

DreamBot Scripts | *Java*

May 2022 - June 2022

- Developed and maintained various automated scripts to perform in-game tasks
- Utilized behavior trees and finite state machines for complex scenarios
- Increased player automation and efficiency and saved 100+ hours

Personal Website | *HTML, Javascript, CSS*

July 2024 - Aug 2024

- Learned to use HTML, styling with CSS and animating with JS
- Followed HCI conventions to create user-friendly website, hosted on Github Pages

Experience

Barista/Cashier

Sept 2016 - Present

UASU, AB

- Handle over 300+ customer orders daily, ensuring full customer satisfaction in a fast-paced environment
- Trained new staff members on store procedures, drink preparation, and customer service practices
- Follow proper food handling and storage techniques as per Capital Health standards
- Provide excellent customer service to student, staff and public clients

Lifeguard/Instructor

June 2016 - Aug 2021

City of Delta, BC

- Worked with a team of lifeguards to ensure patron safety and smooth facility operation
- Designed and instructed swim lessons for individuals of all ages and skill levels
- Working knowledge of teaching methods and group leadership techniques
- Ability to prepare and maintain official records