

Evelyn Chiew

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Education

BSc in Computing Science, TA for CMPUT 272, 300, 302

University of Alberta

Sept 2021 - Apr 2026

GPA: 3.4

Relevant Courses: Software Quality, Web Applications and Architecture, Database Management, Algorithms I + II

Work Experience

Software Engineer

Nestuity

Docker, Cybera, Next.js, TypeScript, Tailwind CSS, Spring Boot, Java, Postgres

Sept 2025 - Present

Using Agile methodologies, built a web application that provides mental relief to parents of newborns through smart pricing insights and a usage calculator

- containerized and deployed the full application stack using Docker, ensuring consistent runtime environments, and coordinated cloud deployment through Cybera for scalable, reliable production hosting
- designed and implemented a responsive, accessible user interface using Next.js, TypeScript, and Tailwind CSS; built end-to-end Cypress test suites that validated all core user flows across web and mobile form factors
- built resilient Spring Boot REST APIs that orchestrated web-scraped pricing data via ScraperAPI, ensured reliable data persistence in PostgreSQL, and maintained continuous delivery through an automated CI/CD workflow

Implementation Consultant Intern

Fast Enterprises, LLC (Government of Ontario)

May 2024 - May 2025

.NET, Visual Basic, SQL

Managed and maintained a proprietary software used by more than 50,000 government employees daily

- frequently implemented changes and fixes with government clients, coordinating testing and migrations across multiple environments and throughout various government departments
- streamlined the submission and processing of tax returns by developing XML schemas and mapping information across platforms

Undergraduate Research Assistant

University of Alberta (Dr. Vadim Bulitko)

Feb 2024 - Apr 2024

MATLAB

Explored the limits of artificially intelligent agents within a multi-agent artificial environment and potential biological implications of evolution

- analyzed the decision-making policies of autonomous AI agents within simulated evolutionary predator-prey environments, using symbolic representations to study behavioral adaptation and strategy optimization
- designed and implemented MATLAB-based graph algorithms to infer optimal neural-network topologies from large-scale agent performance data, enabling quantitative evaluation of network structure, evolutionary fitness, and reproductive success

Projects

Workout4U

Next.js, React, HTML, CSS, TypeScript, AgentFlow

Built a web application that generates workouts based on muscle group preferences input by users

- designed and implemented a multi-agent workflow using AgentFlow's asynchronous architecture, distributing workout-generation tasks across specialized agents and orchestrating their outputs into a unified, optimized training plan

Distributed Social Network

Django, Python, Postgres, REST APIs, HTML, CSS, JavaScript

Designed and developed a social media web application where users can post, like, comment, and follow other users

- built and integrated RESTful APIs in Django and Python to support the main features, deployed via Heroku with automated pipelines, and backed by a scalable PostgreSQL database
- lead the integration of other social network applications to enable app-to-app communication, gaining an excellent understanding of RESTful APIs, HTTP requests and responses, and JSON data parsing

Grocery Store Profitability

R, RStudio, Python, SQL, SQLite Studio

Optimized profitability for a grocery store by customer type and promotional targeting

- cleaned, engineered, and analyzed real-world datasets to identify profit-driving patterns, leveraging advanced SQL querying and Python-based data exploration workflows
- trained, optimized, and evaluated KNN, LDA, Decision Tree, and Random Forest models in R, and visualized model-driven insights and SQL-derived metrics in RStudio for client-facing decision support