

# Zilin Weng

✉ z22weng@uwaterloo.ca ☎ 647-220-1738 in linkedin.com/in/zilinweng/ 🌐 zilinweng.com

## EDUCATION

### University of Waterloo

Honours Bachelor of Computer Science, CAV: 85%

Waterloo, ON

Sept 2023 — Apr 2028

## SKILLS

**Languages:** Python, C/C++, C#, Java, Kotlin, HTML/CSS, JavaScript, TypeScript, SQL, Dart, PHP

**Frameworks/Libraries:** React, Node.js, Express, .NET, Spring Boot, FastAPI, Flask, Next.js, Flutter, GraphQL

**Databases/Infra:** PostgreSQL, MySQL, MongoDB, Supabase, Git, Docker, Linux, Azure DevOps

**Testing/Tools:** NUnit, Jest, Selenium, Playwright, SpecFlow, Postman, GitHub, GitLab

## WORK EXPERIENCE

### Software Developer Intern

Toronto, ON

Dayforce

Sept 2025 — Apr 2026

- Developed production-ready UI components affecting over **10 different user flows** using **TypeScript/React**, while contributing to internal AI-assisted tools that streamlined debugging and SDLC workflows
- Increased SonarQube unit test coverage by developing **250+ Jest and NUnit tests** across **15+ services**, using Moq-based dependency isolation to improve reliability and ensure deterministic CI test execution
- Built scalable **E2E automation testing suites** with **SpecFlow, Selenium, Playwright and Gherkin**, increasing regression coverage to **80%+** and reducing flaky failures in nightly CI pipelines
- Implemented backend business logic and RESTful API integrations in **C#/.NET**, writing optimized SQL queries to support production frontend workflows and cross-service data synchronization

### Junior Software Developer

Toronto, ON

Joseph Murray & Associates Consulting

Jan 2025 — Apr 2025

- Contributed open-source improvements to **15+ data scrapers** for the Open North API using Python and XPath, enabling accurate ingestion of datasets covering **800+ federal election candidates**
- Developed a cross-platform Flutter mobile application integrating GraphQL APIs from a Drupal CMS, implementing OAuth-authenticated workflows and validating API interactions with Postman
- Took full ownership of building and deploying a custom WordPress CiviCRM extension using PHP and MySQL in **under 10 hours**, automating certificate generation and participant email distribution

### Frontend Developer

Remote

PetDrifts

Jan 2025 — Feb 2025

- Refactored **15+ legacy React UI components** using ShadCN and Bootstrap, improving design consistency, responsiveness, and frontend maintainability across the web application
- Designed and prototyped new user-facing interfaces in Figma, improving navigation and discoverability

## PROJECTS

### 🏠 UWHousingFlow | React, Supabase, GraphQL, Python, FastAPI, LangChain

- Engineered a full-stack housing platform using **React, Supabase GraphQL, and FastAPI**, supporting authenticated review submission, real-time listing retrieval, and AI-powered housing insights
- Developed **LLM-driven summarization pipelines** with LangChain and Ollama to enhance search relevance and user discovery experiences

### 🛒 E-Shop | Node.js, Express.js, React, MongoDB, Mongoose

- Built a full-stack JavaScript shopping application with **React** and **Node.js/Express.js**, implementing authentication, API-driven workflows, and **MongoDB** database integration

### 🎮 Biquadris | C++, OOP, Game Design

- Engineered a modular multiplayer Tetris-style game in C++, leveraging **object-oriented design principles** and RAII-based memory management to safely coordinate dynamic game states and player interactions