

# JINA WALBOURNE

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## EDUCATION

**Dalhousie University**, *Bachelor of Computer Science*

**Sept 2022 – Present**

**Relevant Coursework:** Data Structures & Algorithms, Computer Systems Programming, Software Development, Database Systems, Data Science, Discrete Mathematics

## SKILLS & TOOLS

**Programming languages:** Java, HTML, CSS, JavaScript, Python, C, MySQL, x86 Assembly, Typescript

**Tools & Platforms:** Git, GitHub, GitLab, React Native, IntelliJ, Visual Studio Code, Eclipse, Figma

**Collaboration & Communication:** Coordinated events in Dalhousie's Women in Tech Society, strengthened team planning, outreach, and cross-department communication skills through regular meetings and email campaigns

**Other:** Object-Oriented Programming, debugging, time management, attention to detail, cross-functional collaboration, adaptability in fast-paced environment, ability to take initiative

## PROJECTS

**Dermacode – Beauty Product Recognition App**

**May 2025 – Present**

*Ongoing Personal Project* | React Native, Typescript, Python

- Developing a mobile app that allows users to scan or search Sephora beauty products and flag comedogenic ingredients based on a curated dataset
- Wrote a Python-based data pipeline to parse CSV product data, converting it to structured JSON with 1000+ entries categorized by brand, ingredient list, and suitability for different skin types

**AI Sales Coach**

**Mar 2025 – May 2025**

*Personal Open-Source Project* | GPT4All, FastAPI, HTML, CSS, JavaScript

- Developed a full-stack coaching tool simulating real-time sales conversations using a locally hosted GPT4All model
- Connected frontend and backend through RESTful API calls to simulate dynamic, multi-turn conversations

**Heart Disease Dataset**

**Jan 2025 – Apr 2025**

*Dalhousie University* | MySQL, SQL, ER Modeling

- Designed and implemented a normalized relational database modeling diseases, symptoms, treatments, and researchers, integrating multi-entity relationships into a cohesive schema
- Queried real and synthetic datasets using multi-table joins to analyze correlations between attributes and outcomes

**Basic Front-End Compiler for JSON**

**Sept 2024 – Dec 2024**

*Dalhousie University* | Python

- Built a recursive descent parser to perform lexical, syntactic, and semantic analysis on JSON structures in Python
- Tokenized input, enforced semantic rules, and generated abstract syntax trees with informative error messages
- Validated implementation with 10 automated test cases covering all supported semantic error types and valid inputs

**Course Scheduler**

**Sept 2024 – Dec 2024**

*Dalhousie University* | Java

- Built a Java-based course scheduler using object-oriented programming to manage courses and define prerequisites
- Implemented Depth First Search (DFS) and topological sorting to detect cycles and generate valid course sequences

## WORK EXPERIENCE

**Langley Gymnastics**

**May 2018 – Jan 2025**

*Gymnastics Coach*

*Langley, BC*

- Designed and delivered over 500 personalized lesson plans and gymnastics routines, helping students achieve performance milestones across all skill levels
- Coached and mentored 200+ students aged 4–18, enhancing communication and leadership skills in dynamic, goal-oriented environments