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, Python, C, TypeScript, JavaScript, HTML, CSS, MySQL, x86 Assembly
Tools & Platforms: Git, GitHub, GitLab, React Native, IntelliJ, Visual Studio Code, Eclipse, Figma
Technical Skills: SDLC, OOP, debugging, cross-functional collaboration, attention to detail, time management, adaptability, initiative
Communication & Leadership: Contributed to event planning and supported team coordination as a member of Dalhousie Women in Tech Society

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 AI coaching tool using a locally hosted GPT4All model, with RESTful FastAPI backend
- Built a responsive chat UI with scenario-specific prompts and validated backend functionality using Pytest

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