

Talal Ahmad

✉ ahma6802@mylaurier.ca | ☎ 437-236-4295 | in /talal-ahmad | 🌐 /talz-a | 🏠 talal-a.dev

EDUCATION

Wilfrid Laurier University | *Honours BSc in Computer Science and Business Administration* Sep 2022 - Apr 2026

- **GPA:** 3.8/4.0 (Dean's List)
- **Relevant Coursework:** Data Structures, Algorithms, Object-oriented programming, Databases, Discrete Mathematics, Operating Systems, Statistics, Microeconomics, Macroeconomics

SKILLS

Languages: JavaScript, TypeScript, Go, SQL, Python, C++, C, Java, Lua, VBA, HTML/CSS

Frameworks/Libraries: Node.js, Express.js, Pandas, Selenium, React.js, Next.js, Drizzle, Prisma, Tailwind CSS,

Tools: Linux, Git, Bash, Docker, Amazon Web Services (AWS), Github Actions

EXPERIENCE

StartUp Lab Laurier | *Software Engineer Intern - Waterloo, ON, CA*

Jan 2025 – April 2025

- Work with early-stage startups to develop and deliver **MVPs**.

Yamaha Motors Canada | *Software Developer Intern - Toronto, ON, CA*

May 2024 – Aug 2024

- Improved data consistency and reduced error-checking time by **80%** by developing web-scraping apps using **Python**, **Selenium**, and **Pandas** to detect discrepancies between the backend and frontend consumer website.
- Enhanced data integrity and reduced time-to-market by **50%** by developing **Python**, **Pandas**, and **VBA** scripts to convert parts and accessory data across formats, improving data comparability and availability.
- Reduced project downtime by **15%** by performing ad-hoc **SQL** queries to retrieve critical data, supporting **10+** members of the customer experience team.

Kohinoor Fashion Studio | *Software Developer (Contract) - Toronto, ON, CA*

Jan 2024 – Apr 2024

- Developed a full-stack website using **TypeScript**, **React.js**, **Next.js**, and **MongoDB** to showcase business products and information, leading to improved online presence and customer engagement.
- Leveraged **Google Maps API** and **Resend API** to integrate features like store location display and easy email contact, enhancing user experience and accessibility.
- Implemented a **Strapi CMS**, allowing the team to efficiently update product listings and company information, resulting in a **30%** reduction in routine content management time.

Wilfrid Laurier University | *Undergrad Instructional Assistant - Waterloo, ON, CA*

Sep 2024 – Dec 2024

- Support over **100+** students in **CP213** (Object-Oriented Programming) and **CP263** (Data Structures in C) by explaining object-oriented principles, data structures, and debugging techniques.

PROJECTS

Expensify | *Typescript, React, Node.js, Express, PostgreSQL*



- Developed a full-stack expense tracking application that allows users to track expenses, create accounts, and display personalized user feeds with a **PostgreSQL** database, **React** frontend, and **Node.js** backend.
- Made use of **Drizzle ORM** to pull data from the **PostgreSQL** database to reliably host on Restful API endpoints.
- Implemented backend authentication using **Kinde Auth**, with session management handled through cookies.

Monkeylang Interpreter | *Go, Docker*



- Developed an interpreter for a JavaScript-like programming language in **Go**, implementing a lexer, AST, parser, and evaluator, with support for features like **higher-order functions**, **closures**, and data structures such as arrays, strings, and hashmaps.

Reinact.js | *Javascript*



- Engineered a lightweight **React-like** framework leveraging a **virtual DOM** and a custom **reconciliation algorithm** for efficient DOM updates

Texdle (Wordle Clone) | *TypeScript, React, Tailwind CSS, Zustand*



- Developed an unlimited-retry Wordle clone using **React + Vite** for the frontend, styled with **Tailwind CSS**.
- Managed state with **Zustand**, including game logic, user inputs, and synchronized state updates, while implementing **custom Hooks** for guess setting and verification.