APRIL LI

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EDUCATION

University of Waterloo   **Waterloo, ON**
Bachelor of Computer Science, Co-op   *GPA: 3.7/4.0*
- **Relevant Coursework:** Basic Algorithms, Calculus, Linear Algebra

TECHNICAL SKILLS

Certifications: AWS AI Practitioner (machine learning fundamentals, AWS AI/ML services, cloud computing basics)
Frontend: React, React Native, Next.js, JavaScript, TypeScript, HTML, CSS, Tailwind CSS
Backend: Python, Java, Node.js, MongoDB, SupaBase, PostgreSQL, OAuth, AWS, C, Racket
AI & LLM Tools: Gemini API, OpenAI API
DevOps: Git, Postman

EXPERIENCE

Software Developer   **Oct 2025 - Present**
UW Electrium Mobility - Request Platform Website ⬡   *Next.js, TypeScript, SupaBase, NextAuth*
- Developed and optimized reusable UI components in **Next.js** and **TypeScript**, improving frontend maintainability and reducing unnecessary re-renders through refactored component structure and state management.
- Collaborated with other developers to debug, refine, and streamline core UI workflows, contributing to feature planning discussions and improving overall user experience.

Coach & Lifeguard   **Apr 2023 - Aug 2025**
Richmond Hill Lifesaving Club
- Coached **100+** youth swimmers in lifesaving sport, contributing to strong competitive results and multiple **podium finishes**.
- Led practices and competitions, developing strong **leadership**, **communication**, and **time-management skills**.

PROJECTS

NutriLens - Technova 2025 Hackathon ⬡
React Native, TypeScript, Expo
- Developed a **React Native app** in **TypeScript** with **Expo's barcode scanner** to scan packaged foods and fetch nutrition details from OpenFoodFacts, Nutritionix, and USDA databases.
- Implemented a health-condition filter that alerts users if scanned foods may conflict with user's selected dietary or medical restrictions.

MailGest ⬡
React, JavaScript, Node.js, MongoDB, Gemini API, OAuth
- Engineered a **full-stack LLM-powered** email summarization platform with a **React + Vite** frontend, **Node.js** backend, and **MongoDB** database.
- Integrated **Google OAuth**, **Gmail API**, and **Gemini LLM** to securely fetch, summarize, and prioritize emails.
- Implemented session-aware **REST APIs** that cache AI-generated email summaries per user, enabling importance-based filtering while minimizing recomputation and API cost.

Guess Who ⬡
Java, Swing, AWT
- Applied **object-oriented design principles** by modeling game entities (players, characters, and game state) as classes, using **encapsulation** and **abstraction** to improve code organization and maintainability.
- Built an interactive decision-making game using **Java Swing** and **AWT** to create the UI, implement sound effects, and develop a computer player that applies elimination logic to narrow down possible characters.

Personal Website ⬡
TypeScript, React, Next.js, Tailwind CSS
- Designed and built a personal portfolio website using **Next.js**, **TypeScript**, and **Tailwind CSS** to showcase projects and technical experience.
- Implemented a **responsive UI** with smooth scrolling navigation and a functional contact form integrated with **Resend**.