RAYMOND CHAN

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Education

University of Toronto — Toronto, Ontario
Bachelor of Science — *4.0 GPA*

Experience

Recess Hacks 4.0 — **June 2024 − September 2024**
Lead Organizer
- Directed the transformation of Recess Hacks 4.0, growing it from a small community event into a **major international** online hackathon
- Secured over **$150,000** in sponsorships, attracting **200+** participants globally from **10+** countries, and collaborating with corporate partners to fund and support the event
- Managed a remote team to coordinate marketing, outreach, prize distribution, and competition structure to ensure smooth execution

Mathnasium Markham — **August 2023 − July 2024**
Math Instructor
- Designed and led personalized math tutoring sessions for students ranging from elementary to high school
- Applied diverse teaching techniques to increase student comprehension and confidence in mathematics
- Collaborated with fellow instructors to assess student progress, adjusting teaching strategies for optimal learning outcomes

Projects

WATTS UP
- Designed a smart mobile booking assistant using **React** and **Django**, enabling seamless searching, comparison, and reservation of EV charging stations, earning **Best Environmental Project** at Delta Hacks among **500+** competitors at McMaster University
- Implemented **voice command** support, enabling hands-free navigation and interaction with the platform using natural language
- Developed an AI-powered recommendation engine using **Python** and **LangChain** to analyze user preferences and suggest optimal charging stations with **95%** accuracy

AntiTetris
- Developed a real-time, two-player Tetris game using **React** and **JavaScript**, leveraging browser-based timers to synchronize game states, winning **First Place** at NewHacks out of **350+** competitors at the University of Toronto
- Implemented cyberattack mechanics via **WebSocket**, enabling players to launch DDoS, phishing, and other attacks to disrupt opponents while learning cybersecurity concepts
- Designed an **interactive** learning experience, teaching attack and defense strategies through competitive gameplay

SafeSteps
- Engineered a cross-platform mobile app using **React** and **Maps JavaScript API** to provide optimized walking routes that automatically avoid user-reported hazards
- Implemented a dynamic hazard-reporting system, enabling users to submit and visualize dangerous spots on the map
- Enhanced travel safety by leveraging **FastAPI** for quick data retrieval from **Mongodb** database and on-the-fly route recalculations to continuously recalculate the different routes for safer navigation

Caffio
- Developed a **full-stack** caffeine monitoring application using **React** and **Firebase**, enabling users to track daily intake, spending, and consumption trends for healthier coffee habits
- Designed an intuitive user interface for selecting coffee types and calculating caffeine levels with real-time updates

Technical Skills

Languages: Python, TypeScript, JavaScript, SQL, C, PostgreSQL
Technologies: Html, CSS, React, Next.js, Express.js, Node.js, FastAPI, Django, Tailwind CSS, PyTorch, NumPy, R
Development Tools: Git, Docker, Bash, MongoDB, AWS