

ETHAN CHEN

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EDUCATION

University of Waterloo

Bachelor of Applied Science in Computer Engineering

Sep. 2024 – May 2029

Waterloo, Ontario

EXPERIENCE

Setford Consulting & Technology Ltd.

August 2023 – October 2023

Front-End Web Developer

Calgary, Alberta

- Wrote the website "structure3d.com" using HTML and JavaScript to manipulate the DOM and build engaging visual effects.
- Utilized TailwindCSS to develop a satisfying user interface and experience that resulted in greater user retention.
- Developed communication skills by consistently coordinating with the client to ensure that all requests and needs are satisfied.

PROJECTS

Problem Set Assistant | TypeScript, NextJS, React, Redux, TailwindCSS, PostgreSQL, Vercel, AWS S3, AWS Lambda

July 2024

- Developed a NextJS and React full-stack web application hosted on Vercel that helps the user focus on questions to improve on.
- Utilized AWS Lambda to process user-uploaded PDFs into images readable by OCR (TesseractJS) stored in AWS S3 buckets.
- Implemented PostgreSQL to store users and sessions as well as organize user files stored on S3.

To-do list Desktop Application | TypeScript, NextJS, React, Tauri, TailwindCSS

March 2024

- Developed a desktop application by using Tauri to render a NextJS application in a window.
- Implemented Todoist API and OAuth to reference a user's to-do list.
- Used Todoist API to display a user's data as a traditional to-do list or on a calendar.

Real-time Mathematical Rendering Hack the North 2022 Project | C#, .NET Windows Forms

September 2022

- Developed a desktop application using .NET Windows Forms to render mathematical notation in real-time.
- Actively learned collaboration capabilities on GitHub with hackathon teammates.
- Improved presentation skills by explaining the project to judges and observing speaking strategies demonstrated by teammates.

TECHNICAL SKILLS

Languages: Python, Java, C#, C++, HTML/CSS, TailwindCSS, JavaScript, TypeScript, React, Redux, NextJS, ExpressJS, SQL (Postgres)

Developer Tools: VS Code, VS Community, Eclipse, Android Studio, NodeJS

Technologies/Frameworks: GitHub, Vercel, AWS S3, AWS Lambda, Tauri, .NET

LEADERSHIP / EXTRACURRICULAR

First Tech Challenge Robotics Team

Fall 2022 - Spring 2024

Lead Programmer

Strathcona-Tweedsmuir School

- Contributed to increasing the team's divisional ranking by over 15 positions and entering provincial qualifications in less than a year by developing effective Java code for the robot using Android Studio to compete in the autonomous phase.
- Efficiently and calmly coordinated with teammates during match intermission periods of 5-15 minutes to fix or improve the robot.
- Adapted to alliance teams by initiating strategic communication before the match to optimize the overall alliance score.

AWARDS

University of Waterloo President's Scholarship of Distinction

July 2024

University of Waterloo

The Timothy Stiles Memorial Award

June 2024

Strathcona-Tweedsmuir School

The Dr. Dorothy Goldstein Memorial Prize for Senior School Science

June 2024

Strathcona-Tweedsmuir School

Canadian Senior Mathematics Contest Certificate of Distinction

December 2023

University of Waterloo