

Aleck Bowen Sun

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TECHNICAL SKILLS

Languages: C, C#, JavaScript, TypeScript, Python, HTML/CSS/Sass, Java, PHP, SQL

Tools: Node.js, Express.js, React.js, Angular, ASP.NET, jQuery, MySQL, MS SQL, MongoDB, Git

EDUCATION

University of Waterloo

Honours Computer Science, Co-op

Waterloo, ON

2020 - 2025

WORK EXPERIENCE

Idea Notion Development

Software Developer Intern

Markham, ON

May 2021 - August 2021

- Developed AI chatbot API, engine, and web portal with **C# ASP.NET** and **MS SQL** for **70+** car dealerships
- **Spearheaded development** of organization feature to support managing multiple car dealerships, securing a large organization client and increasing revenue by over **\$2000/month**
- Designed features with **React**, **Angular**, and **TypeScript** such as live agent chat takeover, customizable chat avatars, and data dashboards that helped increase conversation leads by **57%** over 4 months
- Built document eSignature sign-up in **PHP** and **MySQL**, lowering register time from **1+ hours** to **minutes**

VOLUNTEER EXPERIENCE

HackOn Foundation

Speaker and Workshop Lead

Waterloo, ON

May 2021

- Organized and led an intro to full stack development workshop for **400+** hackathon attendees
- Programmed and walked-through coding a note sharing application live with **React** and **Node.js**

PROJECTS

COVID-19 Geographic Data Visualizer

JavaScript, CSS, React.js, Mapbox GL

Waterloo, ON

February 2021

- Created an interactive geographic data map displaying the intensity of COVID-19 data
- Designed a UI for users to compare data metrics and see additional information through popups

Projectify: Project Sharing Website

JavaScript, CSS, Node.js, Express.js, React.js, Redux, MongoDB

Waterloo, ON

January 2021

- Created a REST API and database with Node.js, Express and MongoDB that stores user posts
- Developed a responsive frontend with React and Redux for users to view and post projects

Visual Maze Pathfinder

JavaScript, HTML/CSS, P5.js

Waterloo, ON

December 2020

- Implemented the A* search algorithm on a 2D grid, generated mazes with a recursive division method and drew the visualization with P5.js

Firefighting Bot

BASIC, TraxMaker

Waterloo, ON

January 2020

- Programmed and designed maze solving algorithms in BASIC to navigate a maze and extinguish a flame
- Designed PCB circuit boards and a bot frame with an LCD display, infrared sensors, analog distance sensors, and phototransistors to control bot actions