# BOWEN SUN

519-729-3581 | aleck.bowen.sun@gmail.com | aleck-sun.github.io

linkedin.com/in/bowen-s/ | github.com/Aleck-Sun | gitlab.com/Aleck-Sun

## SKILLS SUMMARY

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

**Development Tools:** Node.js, Express.js, React.js, Angular.js, jQuery, MongoDB, MySQL, Git

## WORK EXPERIENCE

**Idea Notion Development**                                                                                     Markham, ON
Software Developer                                                                                               *May 2021 - Present*
- Developed AI chatbot API, engine/dialogs and web portal with C# .NET for 20+ car dealerships
- Designed responsive portal and chat window clients with React, Angular and TypeScript
- Created data visualization dashboards with server-side AJAX processing improving query efficiency
- Built an automated document eSignature workflow in PHP with DocuSign API, reducing document signing and review time by 400% and increasing document validity success

## EDUCATION

**University of Waterloo**                                                                                       Waterloo, ON
Honours Computer Science, Co-op                                                                                  *2020 - 2025*
- Relevant Coursework: Algorithm Design and Data Abstraction, Functional Programming, Linear Algebra and Proofs, Calculus, Physics

## VOLUNTEER EXPERIENCE

**HackOn Foundation** &#128279;                                                                                   Waterloo, ON
Speaker and Workshop Organizer                                                                                    *May 2021*
- Organized and spoke at an intro to full stack development workshop for 400+ hackathon attendees
- Programmed, taught and walked-through coding a React and Node COVID tip sharing application live

## PROJECTS

**COVID-19 Geographic Data Visualizer** &#128279;                                                                 Waterloo, ON
JavaScript, CSS, React.js, Mapbox GL                                                                              *February 2021*
- Created an interactive geographic data map displaying the intensity of COVID-19 data for 190 countries
- Designed a UI for users to easily compare data metrics and see additional information through popups

**Projectify: Project Sharing Website** &#128279;                                                                 Waterloo, ON
JavaScript, CSS, Node.js, Express.js, React.js, Redux, MongoDB                                                    *January 2021*
- Created a back-end server API and database with Node, Express and MongoDB that stores user posts
- Developed a responsive client interface with React for users to view and post projects

**Visual Maze Pathfinder** &#128279;                                                                              Waterloo, ON
JavaScript, HTML/CSS, P5.js                                                                                       *December 2020*
- Implemented the A* search algorithm on a 2D grid to find the optimal path through a maze generated with a recursive division method and drew the visual simulation with P5.js

**Firefighting Bot** &#128279;                                                                                    Waterloo, ON
BASIC, TraxMaker, Machinery                                                                                       *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 equipped with an LCD display, infrared sensors, analog distance sensors and phototransistors to control bot decisions and actions