

# Alysha Wang

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## EDUCATION

### University of Waterloo

Sept. 2022 – May. 2027

*Bachelor of Software Engineering, Honours, Co-op*

- Relevant Courses: Programming Principles (CS137), Intro to Methods of Software Engineering (SE101), Data Abstraction and Implementation (CS138)

## EXPERIENCE

### Junior Software Engineer

May. 2023 – Present

*Tech Mahindra*

*Toronto*

- Built an employee on/offboarding application using **C#**, **ASP.NET**, and **Swagger** to replace a PEGA based process, resulting in a **72%** reduction in operational costs
- Developed a custom RESTful API to streamline data integration between multiple platforms by creating HTTP POST and GET requests, using **SQL**, **Python**, **Postman**, and **Flask**
- Designed a role based algorithm, integrating **Google Sheets API** for data storage and increasing efficiency by **30%** through automated processes

### Software Developer

May. 2023 – Present

*AimHome Realty Inc.*

*Toronto*

- Led the development of a realtor app using **Javascript**, **Next.js**, **React.js**, and **CSS** to feature property listings via dynamic routing, reducing costs by **99.8%** through leveraging cloud services
- Integrated **Amazon Web Services (AWS)**, **S3 storage**, **Google Sheets RESTful API** and created algorithms using **Python** and **Node.js** to optimize data retrieval and synchronization
- Deployed a direct contact form and created HTTP POST requests using the **Formik library** and Netlify, increasing customer engagement by **20%**

## PROJECTS

### Personal Website | *React.js, Next.js, Javascript, HTML, CSS, Figma*

Jan. 2023

- Established a portfolio website using **React.js**, **Next.js**, **HTML**, **CSS**, and **Javascript** to create a platform showcasing my projects and experiences
- Implemented the **Formik library** and **Fetch API** in creating HTTP POST requests to handle form submissions
- Designed **UI/UX** by creating **mockups in Figma** to enhance visual cohesiveness and user experience

### Motorized Fish-Controlled Vehicle | *Node.js, Javascript, OpenCV, Python, HTML*

Sept.– Dec. 2022

- Built an autonomous vehicle controlled by a live fish or joystick designed with **CAD** and using **OpenCV** and a **Raspberry Pi** to interact with a camera motion sensor alongside four other developers
- Developed an algorithm using **Node.js** to calculate vehicle direction and speed using coordinates
- Created a virtual joystick using **HTML** and **JavaScript** to control the vehicle by interacting with the backend

### Spotify Insights | *Javascript, React.js, Next.js, CSS, Postman*

Jun. 2023

- Constructed a website using Javascript, Next.js, and React.js, interacting with **Spotify's RESTful API** to optimize server-side API endpoints for efficient data handling
- Implemented **OAuth 2.0** authentication protocol to allow users to log in with their Spotify account securely, utilizing Postman for testing API server endpoints and evaluating authentication.

## AWARDS

### York Region District School Board Top Scholar

Jul. 2022

- Gained the **second highest average (99.7%)** in a school board containing **42,000+ students**

## TECHNICAL SKILLS

**Languages:** Java, C, HTML, CSS, C++, Javascript, Python, C#, SQL, Kotlin

**Frameworks/Libraries:** React.js, Next.js, Node.js, Flask, Java Swing, PiCamera, WPILib, OpenCV, .NET

**Developer Tools:** Google Cloud Platform, Amazon Web Services, Git, Postman, Figma, Netlify, Linux