Alysha Wang

alyshawang.dev | alysha.wang12@gmail.com | linkedin.com/in/alyshawang | github.com/alyshawang

EDUCATION

University of Waterloo   Sept. 2022 – May. 2027
Bachelor of Software Engineering, Honours, Co-op

EXPERIENCE

Junior Software Engineer   May. 2023 – Present
Tech Mahindra   *Toronto*
- Built an employee on/offboarding application using **C#, .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   Apr. 2023 – Present
Realchoice Ultimate Inc.   *Remote*
- Led the development of a realtor web 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** for a database and created algorithms using Javascript and **Node.js** to automate 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

E-commerce Web Scraper ↗ | *Python, Selenium, MongoDB, Flask, Pandas, Javascript, React.js*   July. 2023
- Designed a Python script using **BeautifulSoup** to parse and extract data from the HTML page source, covering **1100+** products from the target websites
- Integrated a **MongoDB** database, converting and storing CSV file information to make API endpoints with a **Flask** backend to retrieve data for the Next.js front-end
- Leveraged **Selenium Webdriver** to simulate user interactions, handling dynamic content loading via JavaScript

Spotify to Youtube Playlist Converter ↗ | *Flask, Python, React.js, Javascript, Next.js, CSS*   Jun. 2023
- Developed a full-stack application with a **Python** algorithm to integrate and fetch data from **Spotify's RESTful API** and **YouTube's Data API**, seamlessly converting **500+** songs from users' playlists
- Optimized server-side requests and responses using Axios in the frontend and a **custom Flask RESTful API** in the backend, handling CORS issues effectively and implenting OAuth 2.0 authentication protocol

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

Personal Website ↗ | *React.js, Next.js, Javascript, HTML, CSS, GSAP, Figma*   Jan. 2023
- Established a portfolio website using **React.js, Next.js, CSS, GSAP** and **Javascript** to showcase my projects
- Implemented the **Formik library** and **Fetch API** in creating HTTP POST requests to handle form submissions

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, Koitlin
Frameworks/Libraries: React.js, Next.js, Node.js, Flask, Selenium, Pandas, Java Swing, WPILib, OpenCV, .NET
Developer Tools: Google Cloud Platform, Amazon Web Services, MongoDB, Git, Postman, Netlify, Linux