

Alysha Wang




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SKILLS AND INTERESTS

Languages: Java, C, HTML, CSS, C++, Javascript, Python

Technologies: React.js, Next.js, Node.js, Java Swing, Eclipse Window Builder, PiCamera, WPILib, OpenCV, Linux

PROJECTS

- Personal Website**  | *React.js, Next.js, Javascript, HTML, CSS, Figma* Jan. 2023
- Developed 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
- Math Quiz**  | *Java, JavaSwing, Eclipse Window Builder* Jun. 2022
- Designed an interactive program to test the user's knowledge on various mathematics topics
 - Implemented a **Java** graphical user interface with **JRadioButtons**, **JSliders**, **JCheckboxes**, **JButtons**, **JComboBoxes**, and **JSpinners** using **JavaSwing** and **Eclipse Window Builder**

EXPERIENCE

- President** Oct. 2019 – Jun. 2022
Leadership, Enrichment, and Development Club *Markham District H.S*
- Partnered with 360Kids to fulfill the wish-lists of **30 at risk and homeless youth**
 - Managed a **team of 30 members** to implement a mental health campaign, **impacting 70+ students**
 - Led the executive team by communicating with teacher advisors, innovating leadership and team building events, and delegating tasks to executive members
- Junior Achievement Human Resources Member** Sept. 2018 – Jun. 2021
The Kaizen Project and Studypod
- Co-founded **two podcast companies** to aid high school students develop their future
 - Reached out to secure **20+ guest speakers and 6 sponsors** for the Kaizen Project, generating **\$830+ in sales and raising \$100+ for 360Kids**
 - Networked with 50+ business professionals to pitch the company's product, **increasing our investors by 110%**
- Executive Member** Sept. 2018 – Jun. 2021
Markham Classics Club *Markham District H.S*
- Collaborated with fellow executives to host events such as study sessions for **100+ members**
 - Awarded provincial champion at the Ontario Student's Classics Conference amongst 150+ participants
 - Received Silver in the National Latin Vocabulary Exam and Bronze in the National Classical Etymology Exam

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**
- Junior Achievement Company of the Year Award for Social Enterprise** Jun. 2020
- Awarded to the top company within **42 teams** to make the most impact for social wellbeing

EDUCATION

- University of Waterloo** Sept. 2022 – Jun. 2027
Bachelor of Software Engineering, Honours, Co-op - 3.64 / 4.0 GPA
- Activities and Societies: Computer Science Club, Women in Computer Science Club, Data Science Club
 - Relevant Courses: Programming Principles (CS137), Intro to Methods of Software Engineering (SE101), Data Abstraction and Implementation (CS138)