# Joshua Xue

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## EDUCATION

**McMaster University**                                                                                          Sep 2023 – Present
B.Eng. in Computer Engineering (Co-op)
- CPGA: 3.94/4.00 – Dean's Honor List

## EXPERIENCE

**Software Engineer Lead**                                                                                     Nov 2023 – Present
*McMaster Sumobot Club/Competition*                                                                       *Hamilton, ON*
- Robotics competition where teams design and build robots fight against each other
- Host programming workshops to teach and train teams in Arduino/C++ for robot development
- Build entire robot using CAD, 3D print, Arduino microcontrollers and code for combat

**Lifeguard and Swimming Instructor**                                                                   Aug 2022 – Sep 2024
*City of Markham*                                                                                                       *Markham, ON*
- Certified lifeguard and instructor with Standard First Aid Training and CPR Level C
- Responded quickly and effectively to water emergencies, providing first aid and initiating rescue procedures when necessary
- Conducted swim lessons for individuals of all ages and skill levels and implemented lesson plans tailored to the needs and abilities of each student

**Bike Mechanic**                                                                                                    May 2022 – Sep 2023
*Markham Cycles*                                                                                                        *Markham, ON*
- Experienced in servicing, assembling, and repairing any component on a diverse range of bikes
- Rust removal, mechanical/hydraulic disc/rim brake service, flat tire repair, wheel truing, crank/bottom bracket service, derailleur adjustment, headset service
- Experience working on steel, aluminum, and carbon framesets

**Cashier and Merchandiser**                                                                              Jul 2021 – Nov 2021
*Party City*                                                                                                              *Markham, ON*
- Processed hundreds of transactions for customer purchases and returns, as well as online orders or exchanges
- Provided customer service by fulfilling customer orders and answering questions in store and over the phone in a timely, efficient manner

## PROJECTS

**Personal Portfolio Website** | *joshx.tech*                                                                        Oct 2024
- Developed a front-end web app displaying myself and my skill portfolio
- Built with HTML, CSS, Javascript, React.js, EmailJS

**PlanetPal** | *TerraHacks 2024*                                                                                       Aug 2024
- Terrahacks Hackathon project with a theme on environment and sustainability
- Created a personal waste management assistant web app using the OpenAI GPT api
- Built with HTML, CSS, Javascript, React.js, Vite, Node.js, EmailJS, deployed to Vercel

**ATM Finder** | *YRHacks 2023*                                                                                         Mar 2023
- YRHacks Hackathon project that points you to the nearest ATM and other amenities on a map
- Built with Google Places api, HTML, CSS, Javascript, React.js

## TECHNICAL SKILLS

Languages: C, C++, Python, Javascript, HTML5, CSS3, React.js, Node.js, Arduino, LaTeX, MatLab
Tools: Microsoft Office, GitHub, VSCode, Autodesk Inventor (CAD), Quanser Labs, Granta
Interests: Soccer, Skiing, Cycling, Running, Bikes, 3D Printers, Reddit