## Junxuan Bao

Honours Computer Science Co-op Student

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Profiles	😝 LinkedIn: junxuanb	🗘 <u>GitHub: JunxuanB</u>		
Highlights of Qualifications	<ul> <li>Third-year Honours Computer Science student at McMaster University with 3.93/4.00 GPA.</li> <li>Certified Cloud Expert with over 7 years of full-stack web development experience, specializing in building scalable and user-focused applications.</li> <li>Entrepreneurial leader, successfully founding and scaling a company from inception to a profitable business, achieving \$400,000 in annual revenue.</li> </ul>			
	<b>Proven expertise</b> in designing and implementing efficient workflows and systems that streamlining operations to enhance productivity.			
Experience	<b>Resiliō Climate Solutions</b> Software Development Inte	ern	<b>May 2025 - August 2025</b> Hamilton, ON	
	Redesigned company website independently using <b>Astro</b> , resulting in a <b>400%</b> improvement in overall site performance—including faster load times, better <b>SSO</b> integration, and enhanced maintainability.			
	Built a <b>full-stack</b> SaaS environmental risk warning system using <b>React</b> and <b>Express.js</b> in a <b>monorepo</b> architecture, fully integrated with an internal <b>Learning Machine</b> for real-time <b>risk analysis</b> .			
	Implemented <b>TSOA</b> to structure Express.js APIs with <b>OpenAPI</b> -compliant annotations, and deployed <b>Swagger</b> UI for streamlined, self-documenting developer workflows.			
	<b>McMaster University</b> Communications Assistant		<b>arch 2025 -September 2025</b> Hamilton, ON	
	Automated research funding approval workflows with <b>Microsoft Power Automate</b> , reducing manual processing by 90%. Edited and maintained content on <b>WordPress</b> to ensure up-to-date information.			
	<b>Envoy Hamilton</b> Software Engineer		<b>Sep 2024 - Present</b> Hamilton, ON	
	Designed and implemented a 24-hour smart parcel locker system with the goal of generating <b>\$10,000</b> in annual revenue per site.			
	Improved user convenience by eliminating delivery time constraints, utilizing <b>React, Express.js, and MySQL</b> to create a robust and user-friendly system.			
	Developed an integrated smart lock mechanism using <b>ESP32</b> microcontroller and <b>Arduino</b> (C++) to enable real-time locker access control.			
	<b>ESH Group</b> General Manager / Head of	f Internal Software	<b>Sep 2017 - Present</b> Remote	
	Led the growth of a <b>UGC gaming content company</b> from early operations to <b>\$400,000 in</b> <b>annual revenue</b> . Managed <b>finance, HR, taxation</b> , and <b>global partnerships</b> as <b>General Manager</b> , while also <b>developing internal systems</b> (CRM, ticketing, finance tools, login) that <b>increased efficiency</b>			

by 6×, reduced response time to 24 hours, and improved productivity by 40%.

Education	<b>McMaster University</b> Computer Science 3.93 / 4.00 GPA	<b>Aug 2023 - May 2027</b> Bachelor of Applied Science		
	Dean's honour list / Co-op Global Experience Scholarship			
	Core Courses: <b>Data Structures &amp; Algorithms, Software Design, Databases</b> , etc. Elective Courses: Physics, Economics, Sustain, etc.			
Projects	Half Biz.	Dec 2024 - Present		
	Launched a business tool with features including loyalty programs, self-delivery systems, and online ordering, built using <b>PostgreSQL, Redis, React, and Express.js</b> .			
	Projected to save family-owned restaurants <b>\$2,760 annually</b> by reducing software costs from \$3,000 to \$240.			
	Gained adoption from over a dozen small businesses within a week of its rollout.			
	Full-Stack Developer Course	Sep 2024 - Present		
	Designed and delivered a free full-stack development course to empower university students to complete their first projects using modern technologies.			
	Created and published comprehensive tutorials covering front-end development with <b>TypeScript and React</b> , ensuring accessibility for beginners.			
	Implemented real-world examples using <b>Express.js and PostgreSQL</b> to bridge the gap between theoretical knowledge and practical application.			
	EaseCation User Service System	Jul 2024 - Present		
	Developed a <b>serverless</b> system with 99.99% uptime using <b>MySQL, React, and Express.js</b> , integrating platform APIs to automate manual operations.			
	Enhanced user response rates from 25% to 100%, enabling 35% of work orders to be resolved automatically within a minute through <b>AI-powered autoresponders</b> .			
	Ongoing maintenance is underway to <b>serve tens of thousands of users</b> .			
	EaseCation Office Automation System	Jan 2021 - Dec 2024		
	Streamlined resource requests, with <b>70% of approv</b> requests reviewed within 24 hours, down from 2–3	•		
	Enhanced employee satisfaction by removing process bottlenecks, enabling faster task completion without delays caused by lengthy audits.			
Skills	<b>Programming Languages:</b> TypeScript (JavaScript), MySQL, PostgreSQL, PHP, Java, HTML, CSS			
	<b>Frameworks &amp; Tools:</b> React, Express.js, Astro, Serverless, Cloud computing (AWS, etc.), tsoa, Git, Docker, monorepo, CI/CD Pipelines, Power Automate, OpenAPI, Swagger, RESTful API, Linux, Spring Boot, Next.js, Vue.js, WordPress			
	<b>Technical Skills:</b> UX Design, UML Modeling, Figma, SDLC frameworks, Agile Development, Game Design, Client Communication, MS Office			
	Business & Administrative: Team Leadership, Tax Compliance, Project Management			