

# Kurtis Lin

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## EDUCATION

<b>University of Waterloo</b> <i>Bachelor of Applied Science in Management Engineering</i>	Sep 2024 - Apr 2029 Waterloo, ON
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## EXPERIENCE

<b>Software Developer</b> <i>Airfairness</i>	May 2025 – Aug 2025 Toronto, ON
<ul style="list-style-type: none"><li>Engineered a data pipeline by implementing <b>Redis caching</b> for high-frequency queries and <b>NeonDB</b> for user data storage and API responses, reducing dependency costs from external APIs and increasing response times by <b>40%</b></li><li>Created a Streamlit-based monitoring dashboard to visualize system health metrics and detect performance <b>choke points</b>, leveraging real-time data analysis to help with debugging and optimize system reliability</li><li>Architected the codebase, by designing component interactions with <b>Upstash</b> and <b>Neon</b> to enable auto-scaling, and leveraging <b>FastAPI</b> for <b>asynchronous</b> execution. Powered all by python, for its scalability with AI</li></ul>	
<b>Software Engineer</b> <i>Second Savour</i>	Aug 2025 – Present Vancouver, BC
<ul style="list-style-type: none"><li>Collaborated with leadership to implement technical website optimizations that improved retention, by <b>24%</b></li><li>Developed and integrated responsive, mobile-friendly payment interfaces with <b>Stripe</b>, improving sales</li><li>Improved website <b>SEO</b> to achieve first-page Google rankings, increasing visibility and higher organic traffic</li></ul>	
<b>Web Developer</b> <i>A&amp;B Daycare</i>	Jan 2024 – Sep 2024 Vancouver, BC
<ul style="list-style-type: none"><li>Deployed modern, responsive websites using <b>Next.js</b>, <b>React</b> and <b>Vercel</b>, enhancing company visibility by <b>32%</b></li><li>Optimized <b>website structure</b>, and <b>page load times</b>, improving search engine rankings and increasing traffic</li><li>Collaborated with businesses to craft websites embodying their unique culture and aspirational online presence</li></ul>	

## PROJECTS

<b>Urban Sentinel - Detecting Decay for Cities</b>   <i>Python, FastAPI, PostgreSQL, LightGBM, React</i>	
<ul style="list-style-type: none"><li>Developed a real-time urban monitoring platform that integrates geospatial analytics to track urban decay</li><li>Collaborated with a team to build a backend using modern technology, processing up to <b>100+</b> live data streams</li><li>Achieved <b>2nd</b> place out of 45+ competing teams by delivering an innovative prototype and compelling pitch</li></ul>	
<b>Scam-Mah - Scammer Respondent</b>   <i>Python, Scikit-learn, ElevenLabs', Gemini AI, IsolationForest, Fast API, Pandas</i>	
<ul style="list-style-type: none"><li>Developed a model with <b>StandardScaler</b> and <b>IsolationForest</b> for anomaly detection across <b>100+</b> samples</li><li>Integrated <b>Google's Gemini AI</b> and <b>ElevenLabs'</b> TTS API's to generate real-time, natural-sounding response</li><li>Collaborated with a team to secure <b>3rd</b> place overall at a 24-hour hackathon competing against <b>300+</b> competitors</li></ul>	
<b>NanoWorks - DNA Origami Builder</b>   <i>Python, Nextjs, Pollinations.AI</i>	
<ul style="list-style-type: none"><li>Developed an innovative algorithm to build and visualize complex DNA structures through image representation</li><li>Showcased a MVP through compelling presentations, <b>demonstrating product features</b> and value to judges</li><li>Developed a frontend that integrates with the backend algorithm, assuring <b>smooth system functionality</b></li></ul>	
<b>MedGem - Early Symptom Detector</b>   <i>Python, React Native, Gemini, Vercel, Cohere, Nextjs</i>	
<ul style="list-style-type: none"><li>Implemented data scraping on secondary sources to <b>generate insights</b> that allow physicians to make hypotheses</li><li>Collaborated with a team on a multi-component project, ensuring <b>effective communication</b> at every stage</li><li>Developed a user-friendly interface for nurses and physicians, enabling seamless integration and workflows</li></ul>	

## TECHNICAL SKILLS

**Languages:** Python, SQL, Pandas, Matlab, JavaScript, Excel

**Frameworks & Libraries:** MySQL, PyTorch, Scikit-Learn, TensorFlow, TextBlob

**Developer Tools:** AWS, Vercel, Jupyter Notebook, Anaconda, Pycharm