Jason Xu

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EDUCATION

University of Waterloo   Waterloo, ON
Bachelor of Applied Science in Computer Engineering   *Present*

SKILLS & CERTIFICATES

Programming Languages: JavaScript, TypeScript, HTML/CSS, Python, Java, C++, Bash, VHDL
Frameworks: React.js, Next.js, Astro, SvelteKit, Node.js, Express, FastAPI, TailwindCSS
Developer Tools: Git, Docker, Redis, MongoDB, PostgreSQL, SQLite, Neo4j, Firebase, Twilio, Deepgram

EXPERIENCE

Full Stack Developer Intern   Sept. 2025 – Dec. 2025
Financial Modeling Prep   *Toronto, ON*
- Architected data migration scripts and dashboard to update intake and database of **6,000+** monthly items
- Deployed discrepancy reporting system, reducing support ticket count by **28%** while maintaining data quality
- Optimized and created internal tools, reducing manual work by up to **64%**

Full Stack Developer Intern   Feb. 2025 – Apr. 2025
Financial Modeling Prep   *Toronto, ON*
- Created earnings call module utilizing Twilio VoIP Dialing, increasing earning call coverage by **27%**
- Implemented RAG model using OpenAI and MongoDB Atlas Vector Search, reducing support threads by **62%**
- Overhauled the status monitor for over **80,000** symbols across **60+** global exchanges

R&D Intern   June 2024 – Aug. 2024
Asiacom Americas   *Sterling, VA*
- Developed a comprehensive suite of IT training materials on cloud computing and virtualization technologies for a network technician program
- Engineered and illustrated complex, visual diagrams that simplified abstract cloud concepts, significantly improving the clarity of the training content
- Directed the complete project lifecycle autonomously, consistently delivering professional-level materials with minimal oversight

Online Shopfront Admin / R&D Engineer   Nov. 2021 – June 2022
Lumeria Clothing   *South Riding, VA*
- Created inventory management app with Puppeteer and Firebase, decreasing out-of-stock duration by up to **34%**
- Orchestrated online store operations, ensuring seamless functionality, performance, and customer engagement
- Worked closely with CEO to translate strategic visions into actionable plans and initiatives

PROJECTS

Wikipedia Race Solver | *Node.js, Neo4j, SvelteKit, Docker*   Jul. 2025 – Present
- Engineered a full-stack solution to find the shortest path in a Wikipedia race by leveraging the graph-based capabilities of a Neo4j database
- Designed a data pipeline that collected and processed over **10 million** Wikipedia pages and **1.5 billion** relations, migrating them from a temporary SQLite store to Neo4j
- Architected the system to handle a massive graph dataset, demonstrating database management and large-scale data handling

AI Job Match | *Node.js, React.js, LLama AI, Puppeteer*   Oct. 2024 – Present
- Automated job data collection of **500+** jobs at a time using Puppeteer and Node.js
- Developed an AI-powered agent that analyzes job compatibility with a given resume for interfacing as an API
- Implemented a front end for AI API using React.js and HTTP Streams

BoxFind | *Typescript, Node.js, SvelteKit, MongoDB, Sharp, Docker*   June 2023 – Present
- Developed a full-stack web application with SvelteKit and MongoDB to reduce item retreval time by **48%**
- Reduced storage requirements by up to **57%** using Sharp for compression and resizing
- Leveraged Docker for deployment management, ensuring consistent and efficient deployment