

THOMAS HILLYER

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EXPERIENCE

Software Engineer – Microsoft *Redmond, WA* 08/2020 - Present

- Developed and launched a new Azure cloud-based endpoint to guarantee comprehensive data backups for customers, ensuring seamless transition of over 150 settings to new devices.
- Enhanced a key Windows 11 cloud service by reducing latency by 70% through improved caching, decreasing CPU usage and operational costs.
- Streamlined the client onboarding process, achieving a 50% reduction in workload through the development of explicit technical documentation and automation.
- Managed the successful rollout of two Windows 11 features in latency-sensitive customer paths, demonstrating my passion for improving user experiences.
- Implemented numerous automation improvements in deployment, code review, and live-site incidents, saving developers multiple days per month.
- Led the design and maintenance of a high-scale distributed system .NET API service, handling big data for more than 1 billion devices with a throughput of over 200k requests/sec and a reliability rate of 99.99%.

Quantitative Developer – Squarepoint Capital Hedge Fund *Montreal, QC* 05/2019 – 09/2019

- Integrated data sourcing from multiple software vendors for gas and power pricing into an object-oriented Python codebase for quants to use for research and live-trading purposes, reducing lookup times by 8 minutes/per query. Rewrote the volatility and options pricing calculations to increase speed.

Automation Engineer – Direxion Technologies *Montreal, QC* 05/2018 – 09/2018

- Sped up deployment by 2 days by leading and implementing the transition of the build and deployment system from GitLab CI to Jenkins with Linux and Windows Docker containers.

Software Engineer – Woodbridge Group *Toronto, ON* 05/2016 – 09/2016 & 05/2017 – 09/2017

- Wrote a C# computer vision application to improve the accuracy in identifying parts on conveyors.
- Created an application in C# and .NET framework for RFID part tracking through a doorway.
- Created a web application to price out all costs associated with building new factories.

PROJECTS AND SKILLS

RBC Virtual Banker Design Project – Lead app developer to increase financial literacy in young people 2019

- Utilized Machine Learning RNN to analyze user spending patterns and make realistic budget predictions.
- Gamified the process of learning financial literacy by teaching users bite-sized financial tips.

FPGA Neural Network ECSE 421 – Accelerometer "MNIST" Neural Network implemented in LabView 2020

Open-Source Contributor – Airflow 2019

Lecture Recording System Enhancer Chrome Extension 2018

Java Spring, Vue, Android ECSE 321 – API and front-end developer in group of four 2018

Skills – C#, .NET, Python, Java, C, PowerShell, Bash, Docker, Azure, Cloud, Machine Learning

EDUCATION

Bachelor of Engineering with Internship (Computer) May 2020

McGill University, Montreal, Québec

LEADERSHIP, EXTRACURRICULAR EXPERIENCE, AND INTERESTS

Hackathon Chair – CodeJam: DataDive 2017

- Led a team of students to plan a hackathon for 250 students from McGill and other universities. Organized sponsorship efforts to raise over \$12,500 and created a website for the event.

Vice-President Finance *McGill Engineering Undergraduate Society* 2019 – 2020

- Managed over \$4 million in cash flow annually, with a \$250k annual operating budget.
- Head organizer of semi-annual event with over \$450k in revenue.
- Oversaw financial affairs for 400 employees and volunteers.
- Designed electronic expense management system and automated account printouts to save hours/week.