THOMAS HILLYER

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PROFESSIONAL EXPERIENCE

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

- Reduced latency by 70% in key Win 11 service by improving caching, while also reducing CPU and costs.
- Reduced onboarding workload by 50% by minimizing friction through clear documentation & automation.
- Oversaw launch of 2 new Windows 11 on-by-default scenarios in latency sensitive customer paths.
- Saved multiple days of developer time per month with many automation improvements in deployment, code review, and livesite incidents.
- High-scale distributed .NET API service for >1 billion devices with >200k request/sec & reliability of 99.99%.

Quantitative Developer – Squarepoint Capital Hedge Fund *Montreal, QC* *Summer 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 Python volatility and options pricing calculations to increase speed and take advantage of new features in Airflow scheduling software.

Automation Engineer – Direxyon Technologies *Montreal, QC* *Summer 2018*

- Lead and implemented the transition of the build and deployment system from GitLab CI to Jenkins with Docker containers.

Software Engineer – Woodbridge Group *Toronto, ON* *Summers 2016, 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 Recurrent Neural Network 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*

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.

Board of Governors *McGill Engineering Undergraduate Society* *2017 – 2020*

- Member of the highest governing body of the EUS. Create and ratify bylaws and policies, and draft a long-term vision for the society. Handle legal and financial matters.

Interests: Snowboarding, Home Renovation, Custom Embedded Smart Home Sensors