

Varunan Varathan

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SUMMARY OF QUALIFICATIONS

Computer Engineering Level IV Candidate at McMaster University who is passionate about **software development**, **digital system design**, and **cloud infrastructure applications**.

Professional experience using **DevOps development tools**, **artificial intelligence applications**, **microprocessor systems**, **assembly programming**, **Agile project management platforms** and **full stack app development frameworks**.

EDUCATION

McMaster University | Bachelor of Computer Engineering (GPA: 9.7/12 or 3.6/4.0) Expected: April 2027

- Candidate for: **Major in Computer Engineering & Society (B.Eng)** and **Minor in Accounting & Financial Mgmt.**
- Courses taken: System Design (3DQ5), Electronic Devices, Computer Arch., Software Development, Finance/Accounting

PROFESSIONAL EXPERIENCE

Software Developer | H.H. Angus & Associates Ltd. May 2026 – Aug 2026

- Designed and built the **ARMS Recommendation Engine** — a room- and space-utilization system to maximize floorspace usage for healthcare and corporate-office clients using **Python, PostgreSQL, AWS, TensorFlow** and **LLMs**
 - Created prototypes using LLMs, traditional ML models and statistical approaches to optimize accuracy and usefulness
- Created various programs in **Python/C#** for **Autodesk** Environments - reduced export & “clean-up” time by 95%

DevOps Developer | IBM: WatsonX Governance May 2024 – Aug 2025

- Designed tools and automations to improve **SaaS** deployments of IBM OpenPages in **AWS** and **IBM Cloud**
- Applying project management and development skills in **Agile, Kubernetes, AWS** and **cloud infrastructure** principles
 - Developed automations & deployed worker node servers for **CI/CD pipelines**, reducing runtime failures by 80%
 - Led effort to modernize microservices and scripts to meet ARCH014 **security/reliability standards & compliance**
 - Worked on a **containerized cloud-hosted application** for monitoring build health and deployment errors for the team’s microservices in development and QA using Slack **APIs, Web Hooks** and security scans

PROJECTS & EXTRA-CURRICULAR ACTIVITIES

Technical Lead – AWS Student Builder Groups Sep 2026 – Present

- Developing and managing open-source projects with a focus on cloud infrastructure and Artificial Intelligence
- Ideate, design and present technical workshops aimed at teaching about AWS and improving technical literacy on campus

‘Mac-a-thon’: Build with AI Hackathon – Google Developer Groups McMaster VP Sep 2023 - Present

- Organized and managed the 2025 Build with AI Hackathon of 200 hackers as a co-lead of the Conferences Team
- Responsible for documenting finances, managing communications with sponsors and establishing MLH Certification

Quant Analyst - DeGroote Finance and Investment Council (DFIC) Nov 2021 – Sept 2022

- Working in the Quant Team at DFIC in areas of Risk Management and Data Analysis to study market trends
- Using software tools like Python and QuantConnect to assess market trends – predictions yielded an additional 15% earnings

SKILLS

- Software Development: **C/ C++ | JavaScript, Node.JS | Python | Java | System Verilog/Assembly | Linux/Bash**
 - Experience in Engineering/Design & Project Management Tools such as:
Docker/OpenShift | AWS SageMaker/Auth | IBM Cloud | Autodesk AutoCAD/Inventor | GitHub | MS Excel/PowerBI
 - Leadership experience through Toastmasters International’s Public Speaking Initiative to facilitate access to communication and team-building events at the H.H Angus Workplace
 - Teamwork and Collaboration skills built during eight ‘design projects’ at **McMaster’s Engineering and ECE Design Studios** and to create prototypes and simulations, assess economic viability & report scope of environmental/societal impact
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