

Michael Quick

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EDUCATION

B.Sc. Honours Specialization in Computer Science

2022 – Present

Western University

- Relevant Courses: Operating Systems, Computer Architecture, Data Structures and Algorithms, Artificial Intelligence, Computer Graphics

EXPERIENCE

Software Developer

Jul 2023 – Present

Gruv Media

London, ON

- Build and maintain websites and applications using Python, PHP, Django, Wagtail, and WordPress
- Performed upgrades and maintenance resulting in increased security and performance, improving load times by 50%
- Collaborate with cross-functional teams and external clients to define requirements and resolve technical issues

Farmhand

Apr 2019 – Oct 2024

Hyland Farms Ltd.

Denfield, ON

- Engineered and installed a self-steering solution for tractors using the open-source AGOpenGPS software
- Designed and installed custom wiring harnesses integrating GPS, IMU, wheel angle sensors, and the main AIO board
- Analyzed performance and calibrated steering parameters for optimal stability

PROJECTS

Tractor Auto-steer

2024

- Expanded upon commercial auto-steering by integrating additional sensors (wheel angle, IMU) and tuning real-time control loops
- Implemented safety checks and failsafes, ensuring stable and consistent tractor guidance during use

DataQuest ML Challenge

2023/2024

- Collaborated in a team to build Python-based machine learning models using pandas, scikit-learn, and XGBoost
- Investigated trends in hotel cancellations (2023) and built a credit card fraud detection model (2024) achieving an 88.3% F1 score

LibGDX Game

2022

- Built a 2-D Java game project by implementing the LibGDX framework and following object oriented programming practices
- Utilized various tools such as Tiled map generation, IDEs, and more to improve the efficiency of production
- Worked alongside a fellow developer, utilizing leadership and communication skills for effective teamwork

TECHNICAL SKILLS

Programming C/C++, Python, Java, JavaScript, PHP, HTML/CSS, TypeScript, R

Tools Git, GitHub, cPanel, WHM, Apache, PostgreSQL, MySQL, LaTeX, OpenGL

AWARDS AND CERTIFICATIONS

- Learn to Lead Leadership Certificate, Western University (2022)
- Western Game Design Society Game Jam Winner (2023)
- Participant in Western AI's DataQuest (2023, 2024)
- Participant in Crack the Code Cyber Security CTF (2024)
- Quadro Communications Co-operative Inc. Scholarship Recipient (2023)