

Vick Gill

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[portfolio](#) | [linkedin](#) | [github](#)

SKILLS

Programming Languages Python | Java | JavaScript | Typescript | Swift | C | C++ | PHP
Technologies MySQL | Firebase | MongoDB | Node.js | Docker | Kubernetes | Azure | RESTful APIs | JUnit
Data Science & Frameworks Ruby | React | Pytorch | Scikit-learn | Pandas | NumPy | Tailwind CSS | Django

EDUCATION

Master of Software Engineering (M.Eng) - Emphasis in Machine Learning **Graduated: May 2024**
University of Calgary | GSA Academic Vice Chair | 4.0 GPA *Calgary, Alberta*
Bachelor of Biomedical Engineering (B.Eng) **Graduated: May 2021**
University of Guelph | Dean's Honour List | Robotic's Team | Engineering Society *Guelph, Ontario*

EXPERIENCE

JDRF Electromag Engineering *Mississauga, Ontario*
Systems Engineer **Dec 2024 – Present**

- Developed and deployed an **automated test framework** for autonomy sensors and mobile app validation, reducing manual verification effort by over **70% and accelerating defect detection**.
- Integrated **CI/CD pipelines** using GitHub Actions and Azure Pipelines, automating test execution with **PyTest, XCTest, and shell scripting**, reducing test cycle times by **40% and enabling nightly regression testing**.

Software Developer **Aug 2024 – Dec 2024**

- Developed and maintained **Swift-based iOS modules** to enhance internal tools, **collaborating with QA and FAE teams** to ensure a seamless user experience.
- Optimized **Swift** code for performance and reliability, leveraging **automated testing strategies** to reduce bugs and improve overall application stability.

CircleCVI *Calgary, Alberta*
Back-End Developer Intern **Jan 2024 - May 2024**

- Engineered robust **MySQL Stored Functions and Procedures** to ensure database integrity and consistency, crucial for maintaining reliable DICOM data, including **complex image and metadata processing**.
- Developed and optimized **Python scripts for automation**, enhancing multiple back-end processes such as **data validation, extraction, and transformation**, which significantly **improved overall data management workflows**.

ATF Logistics *Woodbridge, Ontario*
Software Integrations Engineer **Apr 2022 – Apr 2023**

- Contributed to the **successful integration** of new fleet management software by **developing a customized solution** tailored to the company's unique requirements, **reducing expected integration time by 20%**.
- Demonstrated exceptional troubleshooting skills by effectively **identifying and resolving errors** in the software and keeping the staff up to date with the **latest functionalities and updates** through regular briefings.

Carnostic Inc. *Toronto, Ontario*
Junior Software Developer **Apr 2021 - Apr 2022**

- Implemented **machine learning algorithms** to analyze sensor data and predict future vehicle issues, enhancing the app's ability to offer **proactive maintenance suggestions** and improving user trust and app reliability.
- Engineered a real-time alert system that integrated **predictive maintenance algorithms** with the application's notification infrastructure. **Leveraged RESTful APIs** to ensure seamless data flow from vehicle sensors to the app, enabling users to receive timely alerts about potential issues.

Software Developer Intern **Sep 2020 - Apr 2021**

- Participated in the full life-cycle of **front-end and back-end features**, including research, implementation, and maintenance, ensuring a seamless user experience.

NOTABLE PROJECTS

Improving Nutrition for Medically Complex Children - iOS Application **Feb 2024 - Present**

- Collaborating with **Alberta Health Services** nurses to develop an **iOS application**, aiming to enhance nutrition for medically complex children, utilizing **Swift and Firebase**. Implementing **machine learning algorithms** for **personalized feeding plans** and integrated a **chat-bot** to interact with the database.
- Achieved **2nd place in a competitive hackathon** event and currently contributing to **further development**.

Neo Financial's "Tech Thursdays" Web Application **Aug 2023 - Dec 2023**

- Developed an event-specific website for Tech Thursdays sponsored by **Neo Financial**, utilizing **React for the front-end and Drupal for the back-end**. Collaborated with the development team to implement features such as user authentication, event and speaker management, registration/ticketing, and email communication features.
- Ownership was transferred** to Neo Financial, who are currently responsible for maintaining the web app.