Vick Gill

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⌂ portfolio | in linkedin | ◯ github

SKILLS

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

Back-End Developer Intern　　　　Jan 2024 - May 2024

Circle Cardiovascular Imaging　　　　*Calgary, Alberta*

- 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**.
- Played a key role in improving the in-house tool for **managing DICOM data**, significantly boosting **data access efficiency** and meeting diverse development and testing needs.

Systems Analyst　　　　Jun 2023 - Jan 2024

Zedcor　　　　*Calgary, Alberta*

- Proactively monitored **Genetec system performance**, identified bottlenecks, and implemented optimization strategies to enhance system reliability and performance.
- Configured and **programmed sensors using PHP and mySQL** to enhance security measures and ensuring efficient monitoring of critical areas.
- **Increased system efficiency by ∼5%** by optimizing red zones, filters, and **training object analytic models**.

Software Integration Consultant　　　　Apr 2022 - Apr 2023

ATF Logistics　　　　*Woodbridge, Ontario*

- 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.

Junior Full-Stack Developer　　　　Sep 2020 - Apr 2022

Carnostic Inc.　　　　*Toronto, Ontario*

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

NOTABLE PROJECTS

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

Full-Stack Developer　　　　*Calgary, Alberta*

- 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

Full-Stack Developer　　　　*Calgary, Alberta*

- 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.