MICHAEL YU

SOFTWARE DEVELOPER

michael.g.yu@gmail.com | +1 604-446-5537 | linkedin.com/in/michaelgyu

PROFILE SUMMARY

Results-driven software developer with a broad scientific background and a proven track record of delivering tailored software solutions. Currently seeking an opportunity to join a motivated team for collaborative efforts, aiming to make meaningful contributions toward the success of an exceptional organization.

WORK EXPERIENCE

Full Stack Developer Apr 2022 – Mar 2023
SISA Energy Ltd. – Vancouver, BC

Awarded 1st place in the Digital Services of Coast Capital Venture Competition.

- Contributed to the transformation in modern energy portfolio management by eliminating resource-intensive on-site audits, instead providing real-time access to an automated reporting service on the SISA Platform capable of generating and maintaining audits at scale - a flagship feature developed with ReactJS (Material-UI, Tailwind, React-PDF), Python (Flask), and PostgreSQL (pgAdmin).
- Empowered clients with the necessary tools to explore hundreds of GHG reduction strategies at the portfolio level - previously impossible within typical budgets for decarbonization assessments - by developing 3 dashboards for the SISA Platform using ReactJS to deliver high-fidelity data visualizations and responsive analysis features.
- Enhanced security of the SISA Platform by transitioning storage of portfolio data from the browser to Redis, also improving the platform's efficiency by over 80% by reducing the average frequency of hits to the underlying database. Caching functionality was developed in Python and implemented live on Azure.

Junior Developer (Co-op) May 2021 – Dec 2021
Sierra Wireless Inc. – Richmond, BC

During this 8-month co-op, I led the full development life cycle of 4 projects, including requirements gathering, solution development, deployment to live servers, and documentation. Occasionally provided support to investigate and resolve ad hoc issues presented by internal and external clients.

- Established a platform to monitor international test stations, providing real-time visibility into the entire commercial product repair line and enabling management to accurately evaluate productivity of remote workers operating outside of Canada. Developed the entire platform using ASP.NET, C#, Python, and SQL.
- Prevented department-wide productivity loss in engineering due to a crippling dependency risk on 3rd-party cloud services in proprietary repair-line software, which contributed to significant savings in annual operational costs. Achieved through the implementation of C# exception handling, enabling offline functionality of the repair-line software during cloud service maintenance periods.
- Dramatically improved the rate of customer service to meet high demand by developing a C# method in a warranty checker website to support simultaneous processing of thousands of serial numbers per day.
- Transitioned the process of fetching client RMA documents from manned customer support channels to the self-serve portal, alleviating the burden on customer service representatives and thereby facilitating a more efficient workflow. Achieved through the development of a new self-serve portal feature using ASP.NET and C#, granting clients 24/7 direct access to their own documents.

EDUCATION

British Columbia Institute of Technology – Vancouver, BC Dec 2022
Diploma in Computer Systems Technology (Cloud Computing Option, GPA: 89%)
Languages: Python, SQL, JavaScript, Java, C. **Cloud Computing:** AWS, Docker, Jenkins.

University of Toronto – Toronto, ON Jun 2019
Honours Bachelor of Science (H.B.Sc. in Biology)