Michael Yu

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in michaelgyu

Profile

Socially-minded software developer with a broad scientific background and a passion for learning new technologies. Currently seeking an opportunity to join a motivated team for collaboration, aiming to make meaningful contributions toward the success of an exceptional organization.

Work Experience

2022/04 – 2023/03 Vancouver, BC	**Full Stack Developer** *SISA Energy Ltd.*

- Contributed to the transformation in energy portfolio management by eliminating resourse-intensive on-site audits, instead providing an online reporting service capable of generating and maintaining audits at scale - a flagship feature developed with ReactJS, Python, and PostgreSQL.
- 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 using ReactJS to deliver high-fidelity data visualizations and 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 on Azure.

2021/05 – 2021/12 Richmond, BC	**Junior Developer (Co-op)** *Sierra Wireless Inc.*

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 with 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, contributing 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.
- 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

2020/09 – 2022/12 Vancouver, BC	**British Columbia Institute of Technology** *Diploma in Computer Systems Technology - Cloud Computing Option (GPA: 89%)*
2015/09 – 2019/04 Toronto, ON	**University of Toronto** *Honours Bachelor of Science (H.B.Sc. in Biology)*

Technical Skills

Languages
Python, SQL, JavaScript, TypeScript, Java, C#, C

Cloud Computing & DevOps
AWS (EC2, Lambda, S3, Cloud9, DynamoDB, RDS, CloudFront, CloudWatch, CodePipeline, Elastic Beanstalk), Azure (Data Lake, Redis), Docker, Jenkins.

Frameworks
ASP.NET, React (Material-UI, Tailwind, React-PDF), Ts.ED, Node.js, Flask, Flutter.

OS
Windows, Linux