Michael McKay

Senior Backend Developer

Toronto, On
i@michaelmckay.ca

Experience

Domaine Worldwide (f. Half Helix) — *Senior Backend Developer*

Jan 2024 - Present

- Producing scalable, stable applications to extend and enhance customer and merchant experience for E-Commerce sites.
- Developing simple, repeatable, secure patterns for bulk migrating data across ecommerce platforms.
- Extracting, transforming and loading bulk datasets to and from a variety of formats: XML, CSV, PostgreSQL, MSSQL, MySQL, GQL and REST API scraping.
- Managing and hosting production React Remix TypeScript applications using Heroku, Vercel, Cloudflare pages and AWS.
- Providing valuable perspective and leadership to produce simple technical solutions for complex problems.
- Gathering and refining vague and arcane requirements into tangible goals.

Half Helix — *Backend Developer*

May 2021 - jan 2024

- Worked with a large team to facilitate the data processing needs of a wide variety of E-Commerce clients across many platforms.
- Provided expertise on normalizing database architecture to reduce overall application complexity.
- Developed Ruby on Rails middleware systems

Languages and Tools

10 years

C#, VB, JavaScript HTML, CSS, Postgres, MSSql, Oracle, GDScript, Shell scripting, Git, Github, CI/CD

6 years

React, Remix, TypeScript, Angular, .net core, MYSql, Node.js, Ruby, Ruby on Rails, Heroku, Rust

Technical Summary

Database normalization, architecture, maintenance and analysis

Efficient data manipulation at large scale

Application Development

Performance Optimization

Project management

using ActiveRecord and raw PSQL to establish and maintain reliable, regular parity between asymmetrical inventory systems.
- Developed a consistent, repeatable pattern for safely saturating a variety of web APIs using Ruby and Sidekiq.
- Developed a consistent, versatile pattern for mutating legacy data to suit new production databases with a high degree of certainty using a mix of Ruby on Rails and PSQL.
- Worked in javascript and liquid to maintain and expand Shopify themes.
- Worked on a high demand, high exposure web application to reduce server load and improve process reliability.

Atlas Retail Logistics – *Web Developer*
Oct 2018 - April 2021
- Worked with a small team on a warehouse monolith system to maintain and develop its logistics and labor processes, servers, databases and applications.
- Developed complex attendance analysis software using MSSqlServer, .NET web forms and javascript.
- Developed complex GUIs using materialize, javascript and .NET web forms.
- Developed a system to maintain parity between a local database and a live WMS service using VBScript and MSSql.
- Developed a point reward system which interfaced with vending machines and a custom web store built in .NET Webforms using MSql for persistence.
- Diagnosed, hotfixed and hard fixed a variety of delinquent processes in a huge monolithic application.

Requirements gathering

Shopify Admin

Shopify Extensibility

REST/ GQL APIs

Rate Limitation

Data synchronization

GUI design

Serverless

Heroku

Vercel

AWS

Cloudflare

Digital Ocean

Git

Github

Material Design

Loblaws DC60 (f. Logistics in Motion) — *Web Developer*

May 2016 - Oct 2018

- Worked with a small team on a monolithic warehouse system to maintain and develop its logistics and labor processes, servers, databases and applications.
- Independently developed a system which allowed team members to bid on positions and schedules within the warehouse. This complex system leveraged team member seniority and employment duration to determine priority and assign slots, while recursively accounting for new opportunities as positions were vacated. This ui for the system was built in .net web forms using javascript, the algorithm was built using MSSql stored procs which were actioned using VBScript.
- Developed a team member score board using materialize, javascript and .net webforms to report on various KPIs within the warehouse.
- Diagnosed, hotfixed and hard fixed a variety of delinquent processes in a huge monolithic application.

Education

Computer Programmer Analyst

Durham College

Advanced Diploma

2015 - 2016

- C#
- Visual Basic
- PHP
- MSSQL
- Postgres
- Java
- JavaScript
- OOP
- MVC

- Laravel
- Systems analysis