

Education

Bachelor of Computer Science, University of Manitoba

2015 - 2020

Core Courses: Software Engineering, Distributed Computing, Computer Networking, Database Implementation, Database Tuning & DBMS, Data Structure and Algorithms, Human and Computer Interaction

Technical Skills

Programming Language: Java, JavaScript/TypeScript, SQL, C#, C++, Python, HTML/CSS

Frameworks/Database: React, Node.js, jQuery, Jest, MongoDB, PostgreSQL, MySQL, React Bootstrap, Ant Design

Services/Tools: AWS, CI/CD, Docker, Jenkins, Git/GitHub, Postman, RESTful API, OOP, Figma, Agile Methodology

Work/Development Experience

Software Developer II

Jan. 2021 – Present

Manitoba Public Insurance, Winnipeg, Manitoba

- Core member of the SharePoint Online dev team using Agile Scrum to design, develop, and deploy client-side web applications for the company's intranet using JavaScript, jQuery, React and leveraging Microsoft Graph APIs.
- Improved team's development efficiency and productivity by providing high quality and reusable JavaScript module code.
- Implemented and performed unit and integration tests with Jest, expanding code coverage to 80%, minimized bugs introduction.
- Worked with internal stakeholders and customers to incorporate application feedback and resolved urgent and system function issues.
- Developed multiple SaaS Power Apps and Power Automate Flows products for the SharePoint Online migration projects

Front-End Web Developer

IT Web Project – iTravel eCommerce Shopping Platform, Front-End, Winnipeg, Manitoba

Sep.2023 – Dec. 2023

- Developed and deployed the application's frontend using TypeScript and React with the module design pattern.
- Used Ant Design library, React Router and hooks to build the application components. Integrated it with backend API using JWT token to improve security and efficient data communication.
- Introduced internalization with React framework i18next and used Redux Toolkit to create redux store and manage global states to improve system performance and responsiveness.
- Utilized Docker, Jenkins, and Aliyun to create application images, automate CI/CD pipelines, and deploy to the cloud.

Full-Stack Web Developer

March – July 2020

IT Web Project – Multi-User SEO Blogging Platform, Winnipeg, Manitoba

- Utilized React, React Router, hooks and React Bootstrap to build the frontend of the application and seamlessly integrated it with backend API using JWT token.
- Constructed the backend RESTful APIs using Node.js, Express, and middleware to facilitate frontend resource requests.
- Utilized Mongoose to define application's data models and MongoDB for the application's database management.
- Leveraged Docker and DigitalOcean to efficiently deploy and run the application on the cloud.

Junior Java Developer

Jan. 2020 – July 2020

IT Web Project – Online Currency Trading System, Winnipeg, Manitoba

- Developed a synchronized multi-threading TCP server based on Java Socket and ServerSocket to handle concurrent TCP requests.
- Used MySQL to create application's normalized database and used JDBC to integrate it with server.
- Leveraged HTML and CSS to build app's pages and used jQuery and Ajax to facilitate dynamic data exchange with server.

Junior SQL Developer

IT Database Project – Royal Victoria Hospital Database, University of Manitoba

Sep.2019 – Dec.2019

- Developed and maintained a normalized relational database based on PostgreSQL. Implemented advanced SQL queries and used indexes and SQL execution plans to improve database's query performance.

Certification

Certified Meta Front-End Developer Professional

2023

Certified Amazon Web Services Cloud Practitioner

2023

Certified Scaled Agile Development Practitioner – SAFe®5

2021