

MANAS THAKER

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Technical Skills

Languages: Python, TypeScript, JavaScript, SQL, GraphQL, Java, C#, C++, HTML/CSS, Scheme

Frameworks/Tools: React, Kafka, Node.js, Express.js, Angular, ASP.NET Core, Git, Docker, CircleCI

Data Storage: SQL Server, MySQL, MongoDB, Redis

Education

University of Waterloo

Bachelor of Computer Science

Sep 2017 – Apr 2022

Waterloo, ON

Experience

HomeX

Software Engineering Intern

Jan 2021 – Apr 2021

Toronto, ON

- Implemented a webhook microservice utilizing Kafka and Node.js to send home repair appointment details to client companies when appointments are scheduled, handling over **30,000 requests** for appointment details monthly
- Built a custom metric tracking feature using React, GraphQL, and Node.js to allow clients to create and analyze their personal selection of metrics, increasing customer insight by **20%**
- Increased code coverage by **75%** by adding unit and integration tests for new features within the microservices, improving code reliability and safety

BDO Canada LLP

Full-Stack Microsoft Developer Intern

Sep 2019 – Dec 2019

Mississauga, ON

- Developed a web application using Angular, ASP.NET Core, C#, and SQL Server to allow upper management in over **100 office locations** to assign and manage projects given to employees within the company, reducing resource allocation time by **90%**
- Built data validation for over **70 fields** in the forms within the application, improving data quality by **55%**
- Wrote APIs and designed database schemas to assist with the management of project budgets and revenue generated by each employee of the company
- Added dynamic visuals and charts to the application dashboard utilizing the Google Chart API, leading to a **30%** reduction in the amount of time taken by managers to obtain a summary of their resource allocations

Canadian Tire

Full-Stack Developer Intern

Jan 2019 – Apr 2019

Toronto, ON

- Developed an interactive store mapping web application with user authentication to provide store dealers with information including sales of products along every aisle and shelf in the store using Flask, MySQL, and JavaScript
- Automated the data manipulation process for obtaining the store product information by implementing scripts in Python, reducing store mapping time from **16 hours to 4 hours per store**
- Coordinated with a systems architect to design a production database to store user authentication data and sensitive sales data for over **500 store locations**

Kenna

Web Application Developer Intern

May 2018 – Aug 2018

Mississauga, ON

- Maintained and optimized stored procedures, functions and scripts in SQL Server, reducing query latency by **60%**
- Wrote backend agents using LotusScript and SQL to create tables, extract data, and perform scheduled procedures
- Updated code, resolved bugs, and added new features on applications managing the agricultural data of over **200 clients** spread across Canada and Australia using HTML, CSS, and JavaScript

Projects

C (Subset) Compiler | C++

- Wrote a compiler to convert a subset of the C programming language to MIPS Assembly code using LR(1)-Parsing

Inventory Watch | Python, Flask, React

- Collaborated with a partner to develop an application that watches to see if a product found at a given URL changes from out of stock to in stock and notifies the user
- Implemented multiprocessing to support running multiple instances of product availability tracking