

# Manas Thaker

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## SKILLS

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- **Languages:** Python, C++, SQL, C#, Java, TypeScript, HTML, CSS, JavaScript, Scheme, GraphQL
- **Tools/Technologies:** Git, Angular, React, Flask, Node.js, Express, ASP.NET Core

## EXPERIENCE

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- **HomeX** Toronto, ON  
*Software Engineer* *Jan 2021 - Apr 2021*
  - Implemented webhooks for client companies to receive appointment details when an appointment is booked through the Schedule Engine Product by making use of Kafka, MongoDB and Node.js
  - Built a feature to allow client companies to create, track and analyze custom metrics and gain insight regarding their customers utilizing React, GraphQL, and Node.js
  - Wrote and updated unit and integration tests to account for new features added to the microservices
- **BDO Canada LLP** Mississauga, ON  
*Full-Stack Microsoft Developer* *Sept 2019 - Dec 2019*
  - Worked on an Angular web application to allow upper management to assign, manage and track employees working on projects within the company utilizing Microsoft Technologies including C#, ASP.NET Core MVC, Entity Framework, and SQL Server
  - Built data validators for all form data within the application to preserve data integrity
  - Wrote APIs and designed database schemas to assist with the management of project budgets and revenue generated by each employee of the company
  - Populated application dashboard with dynamic visuals and charts utilizing the Google Chart API
- **Canadian Tire** Toronto, ON  
*Full-Stack Developer* *Jan 2019 - Apr 2019*
  - Developed and maintained a store mapping web application that provides store dealers with information including sales of products within every aisle of the store using Flask, MySQL, and JavaScript
  - Implemented scripts in Python to automate the data manipulation process and reduced store mapping time from 16 hours to 4 hours per store
  - Designed the production database to manage user authentication and sensitive sales data for over 500 locations
- **Kenna** Mississauga, ON  
*Web Application Developer* *May 2018 - Aug 2018*
  - Maintained and optimized stored procedures, functions and scripts in SQL Server, reducing 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 developed for BASF Canada and BASF Australia using HTML, CSS, and JavaScript

## PROJECTS

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- **C (Subset) Compiler** C++
  - Wrote a compiler to convert a subset of the C programming language to MIPS Assembly code using LR(1)-Parsing
- **Focus** MongoDB, Express, Angular, Node.js
  - Produced a time management application with user authentication that monitors time spent by the user during work periods and break periods
- **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

## EDUCATION

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**Bachelor of Computer Science** *University of Waterloo* 2017-2022 (expected)  
**Relevant Courses:** Algorithms, Operating Systems, Compilers, Object Oriented Programming