

OMAR BARANEK

obaranek@uwaterloo.ca · (416) 452-0236 · omarbaranek.com

SKILLS

Languages: C++, C, JavaScript, C#, Typescript, Python, Haskell, Bash,
Technologies: ExpressJS, React, PostgreSQL, MongoDB, Linux, Docker, Azure DevOps, AWS

WORK EXPERIENCE

SPS Commerce

Software Engineering Intern

Brampton, ON

May 2021 - Present

- Converted legacy pipelines to use YAML Azure templates, decreasing deployment errors by 10%
- Created services and data models for highly customizable reporting solutions used by retailers
- Authored high-performing SQL stored procedures to execute on an SQL server RDBMS consisting of billion point of sale records increasing performance by over 15%
- Designed SSIS packages to consume and transform big data feeds into an SQL Server RDBMS

Avidbots

Software Engineering Intern

Kitchener, ON

May 2020 - Sep. 2020

- Automated the evaluation of 3D sensors by developing a C++ ROS node with OpenCV and PCL
- Performed a comprehensive analysis of depth sensors to develop a benchmark for performance
- Designed, developed and deployed an SQL database on AWS, storing the results of thousands of atomic tests for depth sensors
- Reduced the time taken for sensors' evaluation by over 3 folds

EDUCATION

University of Waterloo

Candidate for Bachelor of Computer Science

Waterloo, CA

Sep. 2019 - Apr. 2024

Awards: President's Scholarship of Distinction, Dean's Honours List

PROJECTS

Constructor C++

<https://github.com/obaranek/constructor>

- Developed a board game utilizing various data structures such as graphs
- Used various design patterns such as Model-view-controller, Iterator and Factory

Venue Tracker NodeJS, ExpressJS, MongoDB

https://github.com/obaranek/venue_tracker

- Created a RESTful API using ExpressJS and NodeJS, integrated with MongoDB
- Implemented user authentication using JSON Web Tokens and BcryptJS
- Used the Google Maps API to convert addresses to coordinates and recommend nearby venues

Subleteer React

<https://github.com/obaranek/subleteer>

- Developed UI with React, utilizing Axios to update the application state from the database
- Managed authorization of users and application state using React Hooks and Redux
- Implemented UI elements using Bootstrap and used React Forms to handle user data

UWScheduler Python, Flask

<https://github.com/obaranek/UWScheduler>

- Parsed JSON responses and implemented the Requests library to scrape website data
- Cached professor names and ratings, reducing app load time by 500%

AWARDS

Euclid School Champion

Placed top of the school for the Euclid Mathematics Contest, and top 25% globally

University of Waterloo

Jan. 2019

Highest Honours

Graduated with 95% Average

Maadi Narmer School

Jun. 2019

INTERESTS

Interests: Soccer, Table Tennis, Swimming, Hip-Hop, Linux