Omar Baranek

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SKILLS

Languages: C++, C, JavaScript, Python, SQL, Bash

Technologies: NodeJS, ExpressJS, React, PostgreSQL, MongoDB, Firebase, Git, Linux

WORK EXPERIENCE

Avidbots
Perception Software Engineer

Kitchener, ON

May 2020 - September 2020

• Automated unit tests 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 hosted on AWS an SQL database storing the results of thousands of atomic tests for depth sensors
- Reduced the time taken for sensors' evaluation by over 3 folds

Projects

Constructor C++

https://github.com/obaranek/constructor

- Developed a board game utilizing OOP principles such as abstract classes and virtual functions
- 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 EspressJS and NodeJS, integrated with MongoDB
- Adhered to authentication and authorization standards using JSON Web Tokens and BcryptJS libraries
- Used the Google Maps API to convert addresses to map coordinates

Subleteer React

https://github.com/obaranek/subleteer

- Developed the user interface using React and sent HTTP calls using Axios to save and retrieve the application state
- Managed authorization of users and application state using React Hooks and Redux
- Implemented the UI elements using Material/Bootrap components and handled user data leveraging React Forms

UWSchedular Python, Flask

https://github.com/obaranek/UWScheduler

- Parsed JSON responses and implemented the Requests library to scrape website data
- Created REST APIs (backend) using Flask (Python micro framework)

Awards

Euclid School Champion

University of Waterloo

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

Jan 2019

Highest Honours

Maadi Narmer School

Graduated with 95% Average

June 2019

EDUCATION

University of Waterloo

Waterloo, CA

BCS Computer Science GPA: 3.9

Sep 2019 - Apr 2024

• Winter 2020: Term Dean's Honours List

• Spring 2020: Term Distinction

Interests

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