

Omar Baranek

1B COMPUTER SCIENCE | 20813831

☎ 416-452-0236 | ✉ obaranek@edu.uwaterloo.ca | 🌐 www.omarbaranek.com | 📷 obaranek | 🌐 obaranek

Summary of Qualifications

Programming	C++, C, Python, Bash
Technologies	Firestore, ROS, Git, Linux, VS Code, Vim, MySQL
Web	React, JavaScript, HTML, CSS
Interests	Soccer, Ping-Pong, Swimming, Tech News, Hip-Hop
Soft Skills	Collaborative Problem Solving, Time Management, Communication, Leadership

Work Experience

Avidbots

Kitchener, Canada

PERCEPTION SOFTWARE DEVELOPER

May. 2020 - September. 2019

- Developed a benchmark to systematically characterize the performance of depth sensors
- Performed a comprehensive analysis of the sensors and distilling that in a set of atomic tests
- Built an SQL database to reflect the parameters and results of the atomic tests
- Developed a C++ ROS node to automate the evaluation of sensors with PCL and OpenCV

Projects

Subleteer | React | NodeJS | CSS

Waterloo, Canada

DEVELOPER

Aug. 2020 - Aug. 2020

- Utilised the Redux library to manage authorization and global states
- Managed user interface state using React Hooks
- Used Axios to make HTTP calls to the backend RESTful API, created using NodeJS and ExpressJS
- Enhanced the mobile user experience using CSS media queries to make the website responsive

UWScheduler | Python | Angular | Flask

Waterloo, Canada

DEVELOPER

Aug. 2020 - Aug. 2020

- Developed a web application to view/modify UW schedules using Angular
- Implemented the UI elements using Material/Bootstrap components and handled user data leveraging Reactive Forms
- Created REST APIs (backend) using Flask (python micro framework)
- Parsed JSON responses and implemented the requests library to scrape website data
- Demonstrated object oriented principles such as inheritance/encapsulation in setting up response data objects

Change The World Model UN

New York, U.S.A

DELEGATE

Nov. 2015 - Jan. 2016

- Collaborated and negotiated with various delegates to resolve global conflicts.
- Demonstrated debating skills while negotiating the appropriate resolution

Honors & Awards

2019	School Champion , Placed top of my School for the Euclid Mathematics Contest, and top 25 percent globally	Cairo, Egypt
2019	Highest Honours , Maadi Narmer School (95% average)	Cairo, Egypt
2018	Organizing Committee Award , EBIS Narmer Model United Nations	Cairo, Egypt
2016	Distinction Award , Change The World Model United Nations	New York, U.S.A

Education

University of Waterloo

Waterloo, Canada

CANDIDATE FOR B.S. IN COMPUTER SCIENCE WITH SOFTWARE ENGINEERING SPECIALIZATION

Sep. 2019 - May. 2024

- Admitted with President's Scholarship of Distinction (95 percent high school average)
- CS246: Object-Oriented Software Development
- CS136: Elementary Algorithm Design and Data Abstraction using C
- MATH235: Linear Algebra 2