

# NEEL ISMAIL

Computer Science at University of Waterloo

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## SKILLS

**Programming Languages:** TypeScript, JavaScript, Python, SQL, C#, C++, Java, HTML, CSS

**Tools & Frameworks:** React, React Native, Redux, Node.js, .NET, MongoDB, PostgreSQL, AWS, Selenium

## EXPERIENCE

### **RBC Capital Markets | Software Engineer Intern**

September 2021 - Present

- Responsible for end-to-end redevelopment of legacy portfolio reporting application using **React** and **.NET Core**
- Automated 30+ manual tests for internal tool using **Python** and **Robot Framework** reducing relative testing time by 80%

### **UW Blueprint | Software Developer**

September 2021 - Present

- Building a program registration platform for the Social Diversity for Children Foundation using **TypeScript**, **Next.js**, **Stripe**, and various **AWS services (SES, Lambda, S3)**

### **Fidelity Investments | Software Engineer Intern**

January 2021 - April 2021

- Owned redevelopment of tax statement generation page on tool used by 10 000+ financial advisor clients across Canada
- Streamlined frontend design using **JavaScript** and **JQuery** to reduce required clicks for retrieving statements from 9 to 2
- Revamped backend logic to support new user inputs on frontend using the **Java Spring MVC pattern**

### **Fidelity Investments | QA Automation Engineer Intern**

May 2020 - August 2020

- Automated UI testing for trade processing tool using **Selenium** and **Groovy** reducing testing time for tool by 85%
- Developed automated regression tests for tool used by 10 000+ financial advisors using **Java** to validate fund exchanges revealing inaccuracies in logic of 25% of transaction types and prompting development team to implement required updates

## PROJECTS

### **OrderBud | JavaScript, React Native, Redux, Express, Node, MongoDB**

- Built prototype of social marketplace app for iOS & Android that enables users to discover and transact with local businesses
- Architected in-app social network to allow users to share and recommend businesses and products with friends
- Implemented multiple user roles to allow store owners to manage store profiles, update inventories, and track sales
- Utilized the Google Distance Matrix API and Google Places API to serve geographically relevant businesses to users

### **Flashback | JavaScript, React, Express, Node, PostgreSQL**

- Developed photo repository that enables users to upload collections of memories and tag them with relevant details
- Photo tagging powers search-rank algorithm that facilitates natural language searching of memories
- Enabled users to perform CRUD operations on uploads and implemented JWT authorization to secure access to APIs

### **Settlers of Catan | C++**

- Built Waterloo-inspired version of Catan by employing OOP principles such as inheritance, polymorphism, abstraction, and encapsulation and implementing an Observer design pattern

## EDUCATION

### **University of Waterloo | Candidate for Bachelor's of Computer Science**

2019 - 2024 | Waterloo, ON

Relevant Coursework: Data Structures, Algorithm Design, Object-Oriented Programming, Compilers, Functional Programming

## HONOURS & INTERESTS

**Honours:** OUA Varsity Squash **Rookie of the Year** (2020), **Member of Team Canada** at Pan-American Junior Squash Championships (2019), **Double Medalist** at Canada Winter Games (Individual & Team Squash Events) (2019)

**Interests:** Music Production, Saxophone, Travelling, NBA Basketball