

# NEEL ISMAIL

Computer Science at University of Waterloo

[linkedin.com/in/neelismail](https://www.linkedin.com/in/neelismail)

[github.com/neelismail01](https://github.com/neelismail01)

[n7ismail@uwaterloo.ca](mailto:n7ismail@uwaterloo.ca)

[neelismail.com](https://neelismail.com)



## SKILLS

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

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

## EXPERIENCE

### RBC Capital Markets | Software Engineer Intern

September 2021 - Present

- Developing automated regression tests for compliance applications using **Java** to ensure regulatory reporting is robust

### UW Blueprint | Software Developer

September 2021 - Present

- Building a dashboard for the Social Diversity for Children Foundation to manage registrations for its events using **Next.js** 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 1000+ 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 using **Java** for tool used by 1000+ financial advisor clients 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 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