

# NEEL ISMAIL

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## SKILLS

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

**Tools & Frameworks:** React/React Native, Redux, Node.js, Express.js, MongoDB, PostgreSQL, Git

## WORK EXPERIENCE

**RBC Capital Markets, Incoming Software Engineer Intern**

Sep 2021 - Dec 2021

- Quantitative & Technology Services Team

**Fidelity Investments, Software Engineer Intern**

Jan 2021 - Apr 2021

- Responsible for redesign and redevelopment of tax statement generation page on tool used by 1,000+ advisor clients
- Revamped front-end design and back-end logic using Java to reduce required clicks for retrieving statements from 9 to 2
- Redesigned fund information webpages using with ~5,000 unique weekly visitors using JavaScript and JQuery to include updated performance charts and disclaimers ahead of ETF stock split

**Fidelity Investments, QA Automation Engineer Intern**

May 2020 - Aug 2020

- Automated UI testing for trade processing tool used daily by 100+ employees, which reduced testing time for tool by 85%
- Wrote automated regression tests for a tool used by 1,000+ financial advisor clients using Java to validate fund exchanges, which revealed deficiencies in 25% of transaction types and prompted development team to implement required updates

## PERSONAL PROJECTS

**OrderBud, 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 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, React, Express, Node, PostgreSQL**

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

**Settlers of Catan, C++**

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

## EDUCATION

**University of Waterloo**

Sept 2019 - May 2024

*Bachelor's of Computer Science*

**Relevant Coursework:** Data Structures, Algorithm Design, Object-Oriented Programming, Sequential Programs, Calculus II

**Community Involvement:** Men's Varsity Squash Team (Ontario University Athletics Silver Medalist Team)

**Awards:** President's Scholarship of Distinction, President's Academic Honour Roll

## HONOURS & INTERESTS

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

**Interests:** Music / Saxophone, Working Out, Cooking, Travelling, NBA Basketball