NEEL ISMAIL

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EDUCATION

University of Waterloo   **Waterloo, ON**
Candidate for Honours Bachelor of Computer Science   *Expected May 2024*

Relevant Coursework: Data Structures, Algorithm Design, Object-Oriented Programming, Calculus (I, II), Linear Algebra, Statistics
Awards: President's Scholarship of Distinction, President's Academic Honour Roll
Community Involvement: Men's Varsity Squash Team (Ontario University Athletics Silver Medalist Team), UW Blueprint

SKILLS

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

Frameworks/Databases: React/React Native, Redux, Node.js, Express.js, MongoDB, PostgreSQL, Selenium, Git

WORK EXPERIENCE

RBC Capital Markets, *Incoming Software Engineer Intern*   September 2021 - December 2021
- Quantitative & Technology Services Team

UW Blueprint, *Incoming Software Developer*   Starting September 2021
- Admitted to student organization at University of Waterloo that provides pro-bono software development services to non-profits

Fidelity Investments, *Software Engineer Intern*   January 2021 - April 2021
Java, Spring, JavaScript, JQuery
- Responsible for redesign and redevelopment of tax statement generation page on tool used by 1000+ financial advisor clients
- Revamped frontend design and backend logic using Java to reduce required clicks for retrieving statements from 9 to 2
- Redesigned fund information webpages with 5000 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 - August 2020
Java, Groovy, Selenium, Katalon
- Automated UI testing for trade processing tool used daily by 100+ employees, which reduced testing time for tool by 85%
- Developed automated regression tests using Java for tool used by 1000+ advisor clients to validate fund exchanges, which revealed inaccuracies in logic for 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 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, *React, Express, Node, PostgreSQL*
- Developed photo repository that enables users to upload collections of memories and tag them with relevant details
- Photo tagging powered search-rank algorithm that facilitated 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 Catan by employing OOP principles such as inheritance, polymorphism, abstraction, and encapsulation and implemented an Observer design pattern

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