Neel Ismail

Computer Science at University of Waterloo

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SKILLS

Programming Languages: TypeScript, JavaScript, Swift, Kotlin, Java, C, C++, C#, SQL
Tools & Frameworks: React, React Native, SwiftUI, Node.js, Spring, .NET, AWS, Firebase, Docker, Git

EDUCATION

University of Waterloo | Bachelor's Degree, Computer Science   Sept 2019 - Apr 2024
- **Relevant Courses**: Algorithms (C++), Data Structures (C++), Operating Systems (C), User Interfaces (Kotlin)

EXPERIENCE

Verily (Alphabet's Life Sciences Subsidiary) | Software Engineer Intern   May 2022 - Aug 2022
- Built REST APIs using **Java** and **Spring** enabling the exclusion of data bank participants from analysis based on demographic attributes or medical history, increasing possible cohort customizations by **2x**
- Identified and resolved flaw in service translating cohort definitions into SQL queries, improving correctness of results returned from data warehouse from **60%** to **100%**
- Integrated dynamic bar charts into web UI using **TypeScript** and **React** to visualize cohorts by age ranges, gender, and race

RBC Capital Markets | Software Engineer Intern   Sept 2021 - Dec 2021
- Responsible for end-to-end redevelopment of legacy application used to monitor transactions to **6** database tables
- Built a modern **React** web client using hooks and reusable functional components improving page load times by **300%**
- Created **10+ REST APIs** using **C#** and **.NET** enabling the retrieval of metadata for **20,000+** transactions for data audits

Fidelity Investments | Software Engineer Intern   Jan 2021 - Apr 2021
- Owned redevelopment of tax statement generation tool used by **10,000+** financial advisors across Canada
- Streamlined frontend design using **JavaScript** and **JQuery**, reducing required clicks for retrieving statements by **77%**
- Refactored **Java Spring MVC** controller logic to support new user inputs, reducing invalid entries by **100%**

LEADERSHIP

UW Blueprint | VP Engineering   Sept 2021 - Present
- Responsible for technical success of **40 developers** and **10 project leads** as they build software solutions for **8 NPOs**
- Organize developer recruitment & onboarding, mentor project leads, and drive org-wide engineering process improvements

Men's Varsity Squash Team | Varsity Athlete   Sept 2019 - Present
- Commit 15+ hours a week to training and competition as starter on **OUA Championships Silver Medalist Team**
- Individually have be awarded **OUA Rookie of the Year** and have amassed a **21-5** record over 2 years of competition

PROJECTS

Drip Locker | React Native, Node.js, MongoDB, AWS   **App Store Github**
- Developed a social media app that allows users to share purchases with friends to inspire one another when shopping
- Implemented an infinite-scrolling feed, searching capabilities, and profiles to create a familiar social media experience

Queue It | Swift, SwiftUI, Firebase, MusicKit   **Github**
- Built a music player app for iOS that enables multiple people to add music to the same queue in real-time
- Integrated with MusicKit to enable users to access Apple Music's catalogue of **90+ million** songs

Realtime Chat App | Swift, UIKit, Firebase   **Github**
- Developed a real-time messaging app capable of sending various multimedia including text, photo, and video
- Utilized Firebase Authentication to integrate various social sign-in providers, including Facebook, Google, and Apple

Visit **neelismail.com** for more projects