

Yashvardhan Mulki

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SKILLS

Languages

Swift
Python
Go
Dart
C/C++
JavaScript
Java

Technologies

SwiftUI
UIKit
Node.js
Flutter
MongoDB
Keras
Aqueduct
GraphQL
Linux

AWARDS

Apple WWDC Scholar

(2017, 2018, 2019, 2020):
Recognized by Apple as 1/350
WWDC scholars selected from
student developers globally to
attend the Worldwide
Developers Conference
Press coverage: bit.ly/18-imore,
bit.ly/18-interview, bit.ly/17-interview

Hack the Northeast Machine Learning Prize + 1517 Prize

(2020): Received a \$11,000
grant (cash + hosting credits)
from 1517 Fund

Hack the North Finalist

(2021): Built a computer
vision powered exercise app

EDUCATION

University of Waterloo

2020-2025 (Expected)

Candidate for B.S.E. Software Engineering, Honours (GPA: 96.54/100)

- **Schulich Leader:** Awarded the \$100,000 Schulich Leader Scholarship, Canada's largest merit based undergraduate STEM scholarship, for academic and extracurricular excellence
- **President's Scholarship with Distinction:** Entrance scholarship for 97% admissions average

EXPERIENCE

Apple

May – August 2021

Incoming Software Engineering Intern

Cupertino, CA (Remote)

- Summer 2021 Software engineering intern

Tulip Retail

July 2019

iOS Developer Intern

Toronto, ON

- Used the **Flutter** mobile development SDK to build Tulip's first cross-platform app
- Built an API client with access to core functionality for Tulip's system with **Swift**
- Extended the AppAuth library to build a client for Tulip's OAuth 2.0 authentication system
- Identified improvements for Tulip's API and authentication system
- **Languages/Technologies:** Swift, Flutter, Dart

Tulip Retail

August 2018

iOS Developer Intern (Checkout Team)

Toronto, ON

- Worked on debugging Tulip's core product, an iOS application used by retailers to manage in-store interactions (written in **Objective-C & Swift**) and on improving the app's checkout module
- Developed a layout system for Tulip's catalog module and created a web-based interface to generate layouts, reducing the time needed to change layouts by more than 90%
- **Languages/Technologies:** Swift, Objective-C, HTML, JavaScript

PROJECTS

Unidex (Go): Applying NLP, clustering (DBSCAN), community detection models (ex. CESNA) and PageRank to categorize and rank influence and veracity within dynamic digital communities.

Beacon Mail (Swift, Python): Working with my team to build Beacon, a deep learning powered e-mail experience. Building an iOS application with **SwiftUI** and a text classification system with **Keras**.
(<https://beacon-mail.github.io/>)

Quantum Computer Simulator (C++): Developed a quantum circuit builder. Implemented linear algebra functions such as Kronecker product, matrix multiplication and elementary quantum gates.
(<https://github.com/yashmulki/Hadamard>)

Options Trading Bot (Python): Built an options trading bot that uses a combination of user sentiment and the Black Scholes option pricing model to trade options on a variety of US stocks.

Canada Votes (<https://apple.co/3phROM0>) & **Votisor** (<http://yashmulki.me/votisor/>) (**Swift, Flutter, MongoDB**): Developed two apps aimed at improving voter engagement in Canadian elections through the provision of information on candidates, upcoming elections, representatives and more. Press coverage bit.ly/2KMDtag. Received 5000+ downloads. Developed a data aggregation API (<https://github.com/yashmulki/voteraserver>) for political data with Aqueduct and MongoDB