Yashvardhan Mulki

Software Engineering Student

ymulki@uwaterloo.ca
www.yashmulki.github.io

Skills

Languages

Swift
Dart
Python
Go
C/C++
JavaScript (Beginner)

Tools & Technologies

UIKit
SwiftUI
Keras
Flutter
MongoDB
PyTorch (Beginner)
Node.js (Beginner)
Sketch (UI Design)

Awards

Apple WWDC Scholar *(2017, 2018, 2019, 2020)* Recognized as 1 of 350 scholars selected from student-developers worldwide to attend the World Wide Developers Conference

Hack the North Winner *(2021):* Built a computer vision (PoseNet) powered collaborative exercise app at Canada's largest hackathon

Hack the Northeast Machine Learning Prize + 1517 Prize: Received a $11,000 in cash + hosting credits from 1517 fund, for an ML scheduling tool (with TFLite)

Education

University of Waterloo, Waterloo, Ontario 2020-2025
Candidate for B.S.E Software Engineering (GPA 4.0/4.0)

- **Schulich Leader:** Received the $100,000 Schulich Leader Scholarship, Canada's largest undergraduate STEM scholarship for academic and extracurricular excellence
- **Dean's Honour's List** (1A term), President's Scholarship with Distinction

Experience

Apple, Cupertino, California (remote) *May – August 2021*
Software Engineering Intern

- *Tools Used*: Keras, NumPy, Pandas, Sci-Kit Learn, Flask, Turi Create & Swift

Tulip Retail, Toronto, Ontario July *2019 & August 2018*
iOS/Mobile Developer Intern

- *Tools Used*: Swift, Flutter, Objective-C
- Developed an iOS API client from scratch, implemented authentication with OAuth 2.0/ OpenID and identified improvements for the company's core API
- Used the Flutter SDK to build the company's first cross platform app
- Developed a layout system and a web-based tool to generate layouts, **reducing time to change layout design by over 90%**

Projects

Beacon (SwiftUI, Keras): A revolutionary machine learning powered e-mail experience. Building an iOS app and a text classification model. https://beacon-mail.github.io

Quantum Computer Simulator (C++): Created a basic quantum circuit simulator to understand the fundamentals of quantum computing. Implemented linear algebra functions including matrix multiplication, Kronecker product etc. https://github.com/yashmulki/Hadamard

Cognito (Flutter, Node.js): Developed a web-based education platform that lets users compile, view and share courses comprised of the best educational videos from across the internet.
Canada Votes + Votisor (Swift, Flutter, MongoDB): Developed two apps and a data aggregation API to improve voter engagement in Canadian elections through the provision of political information including candidates and political platforms. Received 5000+ downloads. https://github.com/yashmulki/votisor-iOS, https://github.com/yashmulki/voteraserver

Press Coverage

- **Voting Apps:** http://bit.ly/cbc-int, https://bit.ly/2TE59U3
- **Interview with iMore.com:** https://bit.ly/18-imore
- **TV Interviews (WWDC):** https://bit.ly/18-interview , https://bit.ly/17-interview