Yashvardhan Mulki

Software Engineering Student

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SKILLS

Languages: Swift, Java, Dart, Javascript (Intermediate), C/C++ (Intermediate), Python (Intermediate), R (Beginner) **Platforms & Technologies**: MacOS, Linux/UNIX, UIKit, SwiftUI, Flutter, Aqueduct, Node.js (Intermediate), Keras (Intermediate), MongoDB, GCP/AWS, Git, Arduino, Dialogflow, Adobe Photoshop, Sketch

EXPERIENCE

Beacon Labs, Co-Founder | Oakville, ON

June 2020 - Present

- Early stage startup building a transformative email experience powered by deep learning
- Currently building an iOS application with SwiftUI and a deep learning system with Python (Keras)
- Received a grant (\$11k in cash and hosting credits) from 1517, a seed capital fund

Tulip Retail, iOS Developer Intern | Toronto, ON

July 2019

- Worked with Tulip's executive team to identify improvements in Tulip's API and authentication system
- Used the Flutter cross-platform 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 based authentication system

Tulip Retail, Checkout Team - iOS Developer Intern | Toronto, ON

August 2018

- Worked on debugging Tulip's core product, an iOS application used by retailers to manage in-store interactions (written
 in Objective-C and 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
- Worked on refinements for Tulip's "Runner" iPhone app and associated watchOS app (written with RxSwift)

EDUCATION

University of Waterloo, B.S.E. Software Engineering, Honours

Incoming, (Sep 2020-2025)

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

AWARDS

- Apple WWDC Scholarship (2017, 2018, 2019): Recognized by Apple as one of 350 WWDC scholars selected from high schools and universities across the world to attend the Worldwide Developers Conference based on a submission coded in Swift. Press coverage: https://bit.ly/2VQLFKt, <a href="https://bit.ly
- Apple Swift Student Challenge (2020): Selected as one of 350 Swift Student Challenge winners from across the world based on Swift programming ability
- Hack the Northeast Machine Learning Prize & 1517 Prize: Built a machine learning powered "digital secretary" that automates scheduling based on an intelligent TFLite model that predicts the best time to schedule a given task
- **DECA ICDC**: Placed 3rd at the international level for Entrepreneurship in the DECA business competition

MAJOR PROJECTS

- Quantum Computer Simulator (C++): Currently developing a quantum circuit builder to better understand how quantum computers work. Implemented linear algebra functions such as Kronecker product, matrix multiplication etc.
- 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 individual US stocks.
- <u>Canada Votes</u> & <u>Votisor</u> (Swift, Flutter) 2018, 2019: Developed two apps (in Flutter/Dart and Swift) aimed at improving voter engagement in Canadian elections through the provision of information on candidates, upcoming elections, representatives and more. Press coverage https://bit.ly/2KMDtag. Received 5000+ downloads. Also developed a data aggregation API using Aqueduct and MongoDB to scrape and collate political information & news.
- Cognito (Flutter, Node.js) 2020: Developed a web based education platform that lets users compile, view and share courses comprised of the best educational videos from across the internet. https://cognitobeta.netlify.app
- Other iOS Apps (Swift): Developed <u>Scoretrak</u> (2016), a score-tracking app for games, and <u>TestPlanner</u> (2018), a standardized test planning tool, and received ~3000 downloads cumulatively.