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Yash Mulki

https://github.com/yashmulki
https://yashmulki.github.io

EDUCATION

University of Waterloo   **2020-2025**
Bachelor of Software Engineering   *Waterloo, ON*

- Dean's Honours List (1A), 4.0/4.0 GPA
- Schulich Leader Scholarship ($100,000), Canada's largest undergraduate STEM scholarship
- Courses: Intro. to Data Abstraction & Implementation, Programming Principles, Intro. to Software Engineering

WORK EXPERIENCE

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

- Performance evaluation by manager: **Outstanding** (highest rating)
- Developed an **end-to-end machine learning** solution to automate a key manual user flow
  - Fine-tuned the **XLNet NLP model** to improve a text classification model's accuracy from **66% to 84%**
  - Developed 2 new text classification models and deployed them on a backend written in Flask
  - Refactored backend to consolidate key endpoints and reduce necessary inbound requests by 80%
  - Designed & developed a macOS client to enable users to view and act on predictions
- Rewrote, enhanced, & integrated functionality from an iOS application into another, giving **1000+ enterprise users** access to a key utility
- Streamlined & automated sensor accuracy evaluation for location systems by extracting the functionality of a desktop application and converting it into a **containerized microservice**

Tulip Retail   **August 2018 & July 2019**
iOS Developer Intern   *Toronto, ON*

- Reduced time to change in app product display layout by **over 90%** by implementing a dynamic layout system and a web-based tool to preview & generate new layouts
- Developed the company's **first cross platform mobile app** using the Flutter SDK
- Identified vital improvements to the company's backend/API structure and **OAuth 2.0 authentication** configuration while developing an iOS API client from scratch
- Analyzed & resolved bugs in Tulip's core app that is used by major Canadian retailers

AWARDS & PROJECTS

- **Hack the North Winner (2021):** Selected from 3k+ participants at Canada's largest hackathon for developing a computer vision (PoseNet) powered real-time competitive exercise app
- **Apple WWDC Scholarship (2017, 2018, 2019, 2020):** Recognized as 1 of 350 scholars selected from student developers globally to attend WWDC based on a submission programmed in Swift
- **1517 Fellowship (2020):** Received a $11k (cash + hosting credits) grant for work on Quinoa, a machine learning powered scheduling app built at Hack the Northeast 2020
- **Quantum Computer Simulator (2020)**: Created a quantum circuit simulator using C++, implemented common linear algebra functions including matrix multiplication, kroenecker product and vector operations
- **Canada Votes, Votisor (2018-2020):** Developed 2 apps & data aggregation API to improve voter turnout in Canadian elections by providing political information. Received 5k+ downloads and national press coverage

TECHNICAL SKILLS

- **Languages**: C++, Dart, Golang, Java, JavaScript, Python, Swift
- **Tools/Technologies**: Flutter, Keras, MongoDB, Node.js, Pandas, Sketch