Hady Ibrahim

linkedin.com/in/hady-ibrahim/ | Contact: hadykibrahim@gmail.com | Cell: +1 (613) 710-6040
Project Portfolio at [hadyibrahim.com]

EDUCATION

Software and Biomedical Engineering (4th Year), McMaster University   4.00/4.00
- Awards: Provost's Honour List (x3), The McMaster University Award of Excellence, iBiomed Showcase (x2).
- TA Positions Include: Introduction to Programming, Digital Systems and Interfacing, Genetic Engineering.

WORK EXPERIENCE

Apple - Software Engineer Intern, Video Apps   2024 (May. - Aug.)
Exploratory testing, Test Automation, Daily Build Pipeline, AWS S3, Python scripting for data analysis.

- Designed and created a general-purpose random UI crawler on macOS to crawl any arbitrary application.
  - Increased test coverage while minimizing test maintenance.
  - Collaborated with the team and built off existing frameworks to create this product.
- Added the ability to interleave scripted workflows throughout the crawl to closely simulate the user experience.
- Created a daily build pipeline to scale up the number of crawls to maximize test coverage.

Shopify - Software Developer Intern, Deploys Team   2023 (May. - Aug.)
Led an impactful company-wide project, OpenAI integration, large-scale presentations.

- Led a team of 3 full-time developers in a project to automate enforcement of action item completion.
  - Addressed a critical issue where action items around Shopify, crucial for production readiness and post-incident remediation were neglected until the last minute before high-traffic events.
  - Achieved 91% reduction in overdue tasks within the first month of rollout.
- Announced project to 3,000+ Engineers on Workplace and presented the project to an audience of 50.
- Oversaw Shopify's merge queue and deployment system (CI/CD).
  - Integrated an OpenAI chatbot into the platform, using internal document embeddings to improve UX.

Shopify - Software Developer Intern, Mobile Tooling   2022 (May. - Aug.)
Developed and maintained pivotal infrastructure for all mobile apps across Shopify.

- Led a full-stack project, introducing a highly-used feature to Shopify's mobile infrastructure deployment system.
- Initiated a UI migration from React and an Internal CSS framework to Embedded Ruby and Bootstrap on Shopify's mobile infrastructure. Personally migrated 75% of the product's pages.
- Wrote ansible scripts to provision/maintain a fleet of macs, which run all mobile infrastructure jobs at Shopify.

PROJECT EXPERIENCE

Retina Scanner - Mobile App to Scan a User's Eye for Diabetic Retinopathy using Machine Learning

- Developed and trained an ML model to detect the severity of an individuals diabetic retinopathy (74% accuracy).
- Created a mobile app to make this prescreening technology accessible in locations where clinicians are sparse.

Island Mesh Generator - Interactive Island Generator w/ Extensive Feature and User Customization

- Generate and visualize 2D meshes, further enriched with island generation and interconnected cities.
- Generated different roads and cities using various shortest path algorithms (Dijkstra's and Bellman Ford).

SKILLS

Software	Swift, Java, Ruby, Golang, Python, SQL, React, React-Native, C/C++, Javascript, Typescript, PHP
Others	Ruby on Rails, OpenAI API, gRPC, Docker, GraphQL, Git, Linux, Web. Dev, RESTful API, Verilog