

Michael Shiozaki

Systems Design Engineering, Class of 2020
University of Waterloo

Experience

Research Assistant & Web Developer

May - Aug 2019

Vision & Image Processing Lab - University of Waterloo

- Utilized Dash to build website components for visualization of global microcystin data trends
- Reassessed data visualization methods and restructured the website to better communicate patterns
- Preparing summary presentation for international annual GLEON meeting

Mobile App Developer

Sept 2018 - Apr 2019

North Inc.

- Developed and debugged the Focals app using Kotlin, Java, and Swift as part of the mobile team
- Implemented troubleshooting flow screens based on UX wireframes to guide users through connection issues
- Wrote unit tests using JUnit 4 to test app functionality and ensure robust code, increasing overall code coverage by 10%

Project Coordinator/Solar Team Lead

Oct 2015 - Present

Midnight Sun Solar Car Team

- Assessed previous competition and vehicle shortcomings, delegated tasks to improve difficulties, and led team to 3rd place finish at Formula Sun Grand Prix 2019
- Leads the solar team to determine the most optimal set of solar array components for our next vehicle
- Managed and led meetings to assess progress, scheduled testing plans and coordinated with subteams for critical tasks

CMMS Project Lead/Analyst

Jun - Aug 2017

ITNextStep Inc.

- Led the upgrade of factory maintenance system from paper to a Computerized Maintenance Management System that saw an increase of 40% in maintenance team productivity
- Contacted suppliers and analyzed potential options, then presented conclusions to executive board
- Oversaw project progress, submitted weekly reports, and organized review meetings to reassess timelines

Skills

Languages

Python | Java | Kotlin | HTML
CSS | Javascript | C++ | MATLAB

Technologies

Android | Git | OpenCV | Dash
Tensorflow | Azure AI API | AWS

Supplementary

Product Design | Prototyping
User Research & Testing | Agile

Personal Projects

Recollecture

Lecture recording web app that uses speech to text to transcribe, user interacts via chat bot to request keywords

Microsoft Azure API, Dialogflow, Python

Vehicle Image Classifier

CNN that classifies the type of vehicle in an image

Python, Tensorflow


GLEON-GMA Project

Open source website to compile and visualize worldwide microcystin data to identify toxic algae bloom trends


Python, Dash, HTML, CSS

Contact

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