

NIKITA PETRENKO

EDUCATION

State College, PA

Pennsylvania State University

August 2018 – May 2021

- **Major:** Computer Science, B.S.
- **Minor:** Mathematics
- **Relevant Coursework:** OOP with Web-Based Applications, Intro to Systems Programming, Calculus and Vector Analysis, Matrices, Discrete Math

EMPLOYMENT

Technical Expert

Apple

April 2018 – August 2019

- Diagnosed software and hardware problems of iOS devices and provided solutions for those issues.
- Provided personal training to new and returning customers to help them acquire new skills in using their devices.
- Collaborated with coworkers to provide optimal and fast solutions to customer issues.
- Promoted to Technical Expert in August 2018; performed hardware repairs of iOS devices.

SOFTWARE PROJECTS

Personal Website: www.petrenko.io (for additional information and projects)

I Know Trash

- Developed a smart trash can using Python that uses computer vision to determine whether something is trash or recycling and allocates it into an appropriate trash bag.
- Integrated Google Cloud Vision API on Raspberry Pi to perform object identification on images that are taken by a webcam which is mounted on the trash can.
- Utilized: Python, Google Cloud Vision API, Raspberry Pi

iOS Wordy App

- Created an iOS app using Swift that allows users to take a picture of an object and learn what is the name that object in a foreign language of their choice.
- Integrated Apple's CoreML and Vision APIs to perform object identification on the image taken by a user in real-time.
- Incorporated Google Cloud Translate API to translate the name of the identified item into another language.
- Utilized: Swift, Vision, CoreML, Google Cloud Translate

iOS Doc.AI App

- Created an iOS app using Swift that allows doctors to capture a CT scan of a brain with a tumor to determine whether the tumor is malignant or benign.
- Trained a custom ML model using Apple's CreateML API.
- Incorporated Google's Firebase to allow doctors to create an account on the app to allow doctors to connect with other doctors.
- Utilized: Swift, Vision, CoreML, CreateML, Firebase

AWARDS AND CERTIFICATES

- **Best Use of Google Cloud Platform, DragonHacks 2019 hackathon:** Awarded Best Use of Google Cloud Platform for I Know Trash project, out of 36 projects.
- **Best Mobile App, SF Hacks 2019 hackathon:** Awarded Best Mobile App prize for iOS Doc.AI project, out of 61 projects.
- **Third Place, SF Hacks 2018 hackathon:** Awarded 3rd place prize for iOS Wordy App project, out of 33 projects.

Skills

- **Proficient:** Python, Swift, HTML/CSS **Familiar:** Java, JavaScript, SQL, MongoDB, Firebase, Git