Deval Parikh

http://devalparikh.me
https://github.com/devalparikh

Email: dparikh4@gmu.edu

Mobile: +1-703-980-6519

EDUCATION

George Mason University — Fairfax, VA
Bachelors of Science in Computer Science; GPA: 3.77 — *August 2017 – May 2021*
- **Dean's List**: 2017 - Present
- **Relevant Courses**: Data Structures, Object Oriented in Java, Python, C, Formal Methods and Models, Computer Systems and Programming, Linear Algebra, Discrete Math, Probability and Statistics

EXPERIENCE

Reinventing Geospatial, Inc — Fairfax, VA
Software Engineering Intern — *May 2019 - August 2019*

Software Development Club, George Mason University — Fairfax, VA
Co-Founder/Officer — *August 2018 - Present*
- **Objective**: A collaborative effort on expanding campus involvement for real world software development applications — https://sdcgmu.org
- **Workshops/GMU Hackathon**: Hosted an introduction to Swift (iOS) programming workshop at PatriotHacks

Science Cosmos — Ashburn, VA
Course Director and Teacher — *May 2018 - August 2018*
- **Responsibilities**: Created STEM-related curriculums and led courses of 45+ students
- **Skills**: Taught and developed courses such as, Python - Intro to Programming, HTML/JS/CSS - Intro to Web Development

PROJECTS AND ACTIVITIES (MORE ON GITHUB)

Weapon Detection Model (Deployed Python Model) — Continued Hackathon Project
Python Computer Vision Developer — *December 2018 - Present*
- **Objective**: Building a software service to detect weapons using real-time camera footage.
- **Tensorflow**: Trained model with Darkflow library on YOLO Convolution Neural Network architecture, optimized hyper parameters, trained to classify weapons in real-time by using over 350 collected and annotated images.
- **Deployment**: Developed a web dashboard to display locations and information of detection using Google Maps API and implemented AWS SNS to alert users of detection.
- **Awards**: **1st Place** Best Software Hack by Microsoft, **3rd place** Overall Georgetown University Hackathon, **3rd place** Amazon Web Services Hack https://devpost.com/software/no-more-shootings-20

RecipeMaker REST API Alexa Skill (Node.js/Express) — Amazon AWS Hackathon
Developer — *June 2018 - July 2018*
- **Objective**: Developed an Alexa Skill to minimize household wasted foods by creating recipes based on ingredients
- **AWS Lamda/NodeJS**: Developed Lambda functions to generate recipes based on real-time ingredient data
- **AWS Dynamodb NoSQL Database**: Implemented scalable backend to store and modify user ingredient data

PhotographyToolKit (Python Script) — Personal Project
Python Developer — *May 2018 - Present*
- **Objective**: Engineering a system to manipulate entire albums of photos based on content, format, and size
- **TensorFlow Object Detection API**: Implementing an object detection algorithm to sort collections of photos based on content of the images

YouOwe (Swift) — App Store - Apple
iOS Mobile Developer — *March 2018 - Present*
- **Objective**: Developed a mobile platform for keeping records of monetary debt
- **Xcode/Swift**: Implemented Core Data framework for local data persistence and UIKit framework for front-end

Parkinson's Disease Prediction Research Model — Intel Science and Engineering Fair
Bioinformatic Contestant — *April 2016 - February 2017*
- **WEKA Data Mining**: Analyzed over 10,000 medical patient data from Parkinsons Progression Markers Initiative. Used Weka Open Source machine learning algorithms (j48 classifier and 10 fold cross validation)
- **Microsoft Excel**: Preprocessed data to be used for training on Weka
- **Award**: Awarded Honorable Mention in 2016 Intel Science and Engineering Fair

SKILLS

Experienced: Python, Java, Unix, Assembly, C, Swift, HTML, CSS, Javascript, React, Node.js, Express.js, Django, Flask, NoSQL, MongoDB, AWS DynamoDB, Firebase, GIT Version Control, Bitbucket Jupyter Notebook, VIM, Adobe Creative Suite, Microsoft Office Suite
Familiar: Amazon Web Services, Keras, TensorFlow