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

- **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**: Organized/lead 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 (OpenCV).
  - **Tensorflow**: Achieved weapon classification on real-time video feed by training model on over 350 scraped and annotated images with Darkflow library on YOLO Convolution Neural Network architecture.
  - **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, **2nd place** Amazon Web Services Hack, **3rd place** Overall Georgetown University Hackathon. https://aws.amazon.com/blogs/publicsector/students-hack-for-social-impact-hoya-hacks
- **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