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: **3.85*** — *August 2017 – December 2020*
  - **Dean's List**: 2017 - Present
  - **Relevant Courses**: Algorithms, Data Structures (**Java**), Object Oriented (**Java**), Operating Systems (**C**), Internet Scale Applications, Concurrency, Machine Learning, Low-Level Programming (**C**), Compilers, Computer Systems Architecture, Software Engineering, Discrete Math, Formal Methods and Models, Linear Algebra, Probability and Statistics

Experience

- **Capital One (Full Stack)** — McLean, VA
  Software Engineering Intern — *June 2020 - August 2020*
  - **Objective**: Developed and designed an end-to-end, serverless, full stack application that automates onboarding clients to the multi-factor authorization security pipeline used by capitalone.com, saving hours of clients' time and improving the process duration by 1,500%. Conducted weekly product demos to clients and executives.
  - **Python/AWS/Jenkins**: Developed and architected APIs for application computations that integrate distributed computing, data pipelines, and storage systems. Built with AWS services such as Lambda, EC2, Application Load Balancer, and S3. Used Groovy to build an automated email confirmation system with Jenkins Pipelines.
  - **Angular/Typescript**: Created modular user interface components with Angular, Typescript, HTML, and CSS.
- **Reinventing Geospatial, Inc (Full Stack)** — Fairfax, VA
  Software Engineering Intern — *May 2019 - August 2019*
  - **Objective**: Worked on the geospatial performance enhancing proxy team. Contributed to the full stack web application, leveraging OOP, data structures, and algorithms experience. Utilized Git version control, CI/CD pipelines, and Agile tools.
  - **Javascript/React-Redux**: Developed many client-side features that increased the efficiency of user interactions with the services, logs, and dashboards.
  - **Python/Django/SQL**: Implemented features for back-end services for map data caching and tile rendering. Developed, tested, and optimized API endpoints for application features. Contributed to the increase code coverage from 16% to 55%.
- **FlipFeed (Full Stack)** — Personal Project
  Project Developer — *May 2020 - Present*
  - **Objective**: Designed and developed a multi-tiered, highly scalable social networking application for real estate renovations.
  - **MongoDB/Express/NodeJS/React**: Developed API services, such as user authentication, profiles, and posts, with NodeJS. Used React to serve a modern user interface. Used Redis LRU cache to optimize request time performance.
  - **AWS/Infrastructure**: Utilized AWS EC2 and AWS S3 to deploy Docker containerized microservices for the entire application, developed CI/CD pipeline with CircleCI, and integrated NGNIX for load balancing.
  - **ML/Data**: Implemented Apache Spark MLlib for a collaborative filtering based recommendation system evaluated using RMSE and integrated Elasticsearch for application search.

Leadership and Awards

- **PatriotHacks - George Mason University Hackathon** — Fairfax, VA
  Co-lead of iOS Workshop/Mentor — *August 2018 - Present*
  - **Workshop Lead**: Organizing and leading a yearly introduction to Swift (iOS) workshop, impacting 100+ students.
  - **Student Mentor**: Mentored 250+ university students on various projects including, Java, Python, Javascript frameworks, API implementation from sponsorship companies.
- **Bitcamp - EyeBank (API/Python)** — Group Hackathon Project
  Python Back-end Developer — *April 2019*
  - **Objective**: Developed a solution for access to banking for the visually impaired by creating software that integrates a facial recognition model developed using TensorFlow, Capital One API for banking services, and computations on AWS Lambda.
  - **Awards**: **1st Place** Best Financial Software Hack - Capital One, **1st Place** Bitcamp Compass Challenge.
- **HoyaHacks - Weapon Detection Model (ML/Python)** — Group Hackathon Project
  Python Developer — *February 2019*
  - **Objective**: Built a software service to detect weapons in real-time camera footage using image classification with YOLO Convolution Neural Network architecture and created dashboards using AWS, Google Maps API, HTML, CSS, Javascript.
  - **Awards**: **1st Place** Best Software Hack - Microsoft, **2nd Place** Amazon Web Services Hack - Amazon, **3rd place** Overall Georgetown University Hackathon https://aws.amazon.com/blogs/publicsector/students-hack-for-social-impact-hoya-hacks

Skills

Languages: Java, Python, C, Swift, Javascript, Typescript, HTML, CSS, Bash, Groovy
Frameworks/Tools: Unix, Amazon Web Services, React, Redux, Angular, NodeJS, Express, Django, SQL, NoSQL, Docker, Yacc, LEX, Scikit-learn, TensorFlow, Jupyter Notebook, Vim, Git Version Control, Jenkins