Deval Parikh

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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** — McLean, VA
  Software Engineering Intern — *June 2020 - August 2020*
  - **Objective**: Developed and designed an end-to-end, serverless, full stack application to deployment 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%. Gave weekly product demos to clients and executives.
  - **Python/AWS**: Developed and architected secure 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.
  - **Angular/Typescript**: Developed modular user interface components with Angular, Typescript, HTML, and CSS.
- **Reinventing Geospatial, Inc (RGi)** — 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 CI/CD pipelines and Agile tools like GitLab and Jira.
  - **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