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 (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 on-boarding 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 REST APIs that integrate distributed computing, data pipelines, and storage systems to enable autonomous on-boarding on a large scale. 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 a modular user interface with Angular, Typescript, HTML, and CSS. Secured with SSO.
- **FlipFeed (Full Stack)** — Personal Project
  Project Developer — *May 2020 - Present*
  - **Objective**: Designed and built a multi-tiered, highly scalable social networking application for real estate renovations.
  - **MongoDB/NodeJS/React**: Developed API services for user authentication, profiles, and posts with NodeJS and ExpressJS. Used React to build a front-end that consumes the APIs. Implemented dynamic renovation filters.
  - **AWS/Infrastructure**: Utilized AWS EC2 and AWS S3 to deploy Docker containerized microservices, integrated NGNIX for load balancing, and implemented Redis LRU cache to optimize request time performance.
  - **ML/Data**: Built and integrated a real-time recommendation system with Apache Spark MLlib using a collaborative filtering algorithm, evaluated with RMSE. Integrated Elasticsearch to handle ingested data, log processing, and real-time search.
- **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%.

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