

# Deval Parikh

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## EDUCATION

### George Mason University

*Bachelors of Science in Computer Science, GPA: 3.85*

Fairfax, VA

August 2017 – December 2020

- **Dean's List:** 2017 - Present
- **Relevant Courses:** Algorithms, Data Structures (Java), Object Oriented (Java), Software Engineering, Internet Scale Applications, Operating Systems (C), Concurrency, Machine Learning (Python), Compilers (C)

## EXPERIENCE

### Capital One

*Software Engineering Intern | Full Stack*

McLean, VA

June 2020 - August 2020

- **Objective:** Developed and designed an end-to-end, full stack application that automates on-boarding clients to the multi-factor authorization security pipeline used by capitalone.com, improving the process duration by 1,500%. Conducted weekly product demos to clients and executives.
- **Python/AWS/Jenkins:** Developed REST APIs to enable autonomous onboarding on a large scale using AWS Lambda, EC2, Application Load Balancer, and S3. Used Groovy to build an automated email system with Jenkins Pipelines.
- **Angular/Typescript:** Created a modular front-end interface for onboarding request deployment, creation, and history with Angular and Typescript. Integrated internal single sign-on capabilities.

### FlipFeed

*Project Developer | Full Stack*

Personal Project

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. Built a front-end interface for dynamically filtering and displaying home renovations with React.
- **AWS/Infrastructure:** Deployed containerized microservices with AWS EC2 and S3, integrated load balancing with NGINX, and optimized request time performance with Redis LRU cache.
- **ML/Data:** Built a user recommendation system with Apache Spark MLlib using a collaborative filtering algorithm, evaluated with RMSE. Implemented real-time search, log processing, and data ingestion with Kafka and Elasticsearch.

### Reinventing Geospatial, Inc

*Software Engineering Intern | Full Stack*

Fairfax, VA

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 map visualization components and 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

*Co-lead of iOS Workshop/Mentor*

Fairfax, VA

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

*Developer | Python – Backend*

Group Hackathon Project

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

*Developer | Python – Machine Learning*

Group Hackathon Project

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