

Apoorv Mittal

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EDUCATION

University of Maryland, College Park

Graduating December 2019

Bachelor of Science, Computer Science, **Minor**: Statistics

GPA: - 3.85, **Awards**: Dean's List (All Semesters)

OPEN SOURCE CONTRIBUTIONS

Facebook/React.js

July 2017

- Added explanations for passing props to components in the 'Intro to React' page in Facebook's React.js documentation resulting in improving understanding of React Component Lifecycle

WORK EXPERIENCE

Software Engineer Intern, DrFirst Inc., Rockville

June 2019 -- Present

- Designed and developed RESTful apis in Spring Boot Integration server for DrFirst's e-prescribing mobile app to support a new third-party identity proofing system. Helped come up with the changes required in two other applications for this integration
- Communicated with product owners and third-party companies about requirements for any new feature or implementation change, ensured NIST standards and followed legal guidelines
- Fixed production issues related to Single Sign-On users unable to login after using the old identity proofing method. Worked with Data base Administrators, and Support Staff to identify, solve and verify the problems
- Aided Quality Assurance Engineers understand new SureScript standard and provided them with new Request payloads
- Applied Best Practices of Software Design to elevate code quality and system design. Applied Feature Driven Development, Pair Programming and Extreme Programming.
- Collaborated and participated in daily Scrum/Agile meetings, code reviews, and sprint planning

React and Drupal Developer, Joint Quantum Institute (JQI), College Park

April 2018 -- June 2019

- Created an NSF Funded Open Source React-based Web Application for presenting interactive Quantum Physics Experiments aiming to create awareness and interest in Quantum Physics in students
- Used Webpack to render static bundles and splitting code by lazily loading bundles asynchronously using React lazy
- Implemented service workers for caching, increasing performance and reducing load times using Google's Workbox
- Used Material-UI lib and designed the website using material design guidelines, resulting in enriched user experience
- Wrote tests in Jest, proactively fixed bugs and initiated Test-Driven Development
- Designed and built a prototype JQI website from Drupal to a headless Drupal with React.js frontend, GraphQL middleware and Drupal 8 backend which results in improved scalability, extending modularity and futureproofing

Student System Administrator, Department of Computer Science, University of Maryland

May 2018 -- June 2019

- Maintained the CS Department network and created automated scripts to set up new accounts, web pages, VMs and new Red Hat Systems through Cobbler
- Aided and communicated with faculty, staff and students to resolve their technical problems

PROJECTS

Taapp.cs.umd.edu

- Designed a full-stack web app for CS department TA applications, made the hiring process easier for professors and advisors
- Developed a feature to automatically assign and add accepted TAs to CS databases. *HTML, CSS, JS, PHP, Mysql (MariaDB)*

Predicting Taxi Fares

- Cleaned, Visualized and analyzed New York Taxi Data. Applied ML Algorithms like Decision Trees, Linear Regression, SVM and Random Forest to test and compare models for predicting the Taxi Fare given various parameters
- Analyzed best features for making accurate predictions and Reported on how to improve the model. *Python, Pandas, Scikit-learn*

Messaging App

- Used JavaScript, and Socket.io to make an online messaging app, which uses Node.js to on the server side and socket.io as web socket providing lightweight bidirectional real-time communication. *JavaScript*

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, PHP, MySQL, Python, SAS, C, Ocaml

Technologies: Git, Linux, Spring boot, React.js, Drupal, Node.js, Jest, Hadoop (Map-Reduce)