Apoorv Mittal

(240)-660-6270 | apoorv@terpmail.umd.edu | Apoorv-Mittal.github.io | linkedin.com/in/Apoorv-Mittal

EDUCATION

University of Maryland, College Park *Graduating December 2019*

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

GPA: - 3.8, **Awards:** Dean's List (All Semesters*)*

Related Coursework: Data Structure (CMSC420), Algorithms (451), Concurrency and Multi-Threading (CMSC433), Machine Learning (CMSC422), Cryptography (CMSC456), Programming Handheld Systems (CMSC436)

TECHNICAL SKILLS

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

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

WORK EXPERICENCE

Software Engineer Intern, *DrFirst Inc., Rockville* June 2019 -- *Present*

- Improved user experience and reduced user onboarding time by 40% by integrating a new third-party identity proofing system in Java Spring Boot application for DrFirst's e-prescribing mobile app for 25000-50000 new users
- Designed, developed, debugged and tested RESTful APIs for above integration and streamlined it by aiding two teams in coming up with the requirements for their applications
- Fixed production issues related to Oauth2 and iOS notifications by working with Database Administrators, and Support Staff to identify, solve and verify the problems
- Communicated with product owners and third-party companies about requirements for new features or implementation changes; ensured NIST standards and followed legal guidelines

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 for over 30000 students on UMD campus and more
- Used Webpack to render static bundles and split code by lazily loading bundles asynchronously using React lazy
- Increased performance and reduced load times by 50% by implemented service workers for caching using Google's Workbox
- Enriched user experience by using Material-UI lib and designing the website using material design guidelines
- Proactively fixed bugs and initiated Test-Driven Development by writing tests in Jest with 86% coverage (previously no tests)
- Designed and built a prototype JQI website from Drupal to a headless Drupal with React.js frontend, GraphQL middleware and Drupal 8 backend as proof of concept to show improved scalability, extended modularity and future-proofed

Student System Administrator, *Department of Computer Science, University of Maryland* May 2018 -- June 2019

- Maintained the CS Department network and created scripts to set up new accounts, web pages and new Red Hat Systems through Cobbler; Aided and communicated with over 300 faculty, staff and 4000 students to resolve their technical problems

Teaching Assistant, *Department of Computer Science, University of Maryland* May 2017 -- May 2018

- Taught a class of 30 and held office hours to help with debugging programming assignments using Eclipse IDE debugger
- Led review sessions and communicated feedback to 500 students for Intro to Object Oriented Programming Class

PROJECTS

Facebook/React.js [Open-Source Contribution] 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

Taapp.cs.umd.edu [Personal Project] ***PHP, Mysql (MariaDB)*** July 2018 -- *Present*

- Designed a full-stack web app for CS department TA applications to ease hiring process for professors and TA admin staff
- Pitched to the CS Department and got accepted as the official TA application; successfully being used since Fall 2019
- Made an Admin Feature to automatically and manually assign TA, administer courses, and easily export data for payroll
- Created a Faculty Feature for professors to manage their assigned TA and request TAs from Administrator

Predicting Taxi Fares [Personal Project] ***Python, Pandas, Scikit-learn*** December 2018

- Cleaned, Visualized and analyzed New York Taxi Data. Applied ML Algorithms like Decision Trees, Linear Regression, SVM and Random Forrest 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 best model by tuning the hyper-parameters using 10-fold cross-validation