# Apoorv Mittal

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## EDUCATION

**University of Maryland, College Park**
***Bachelor of Science**, Computer Science*
***Minor**: Statistics*
*GPA: - 3.845, Graduating December 2019*

## RELATED COURSES

Applied Probability and Statistics, Algorithms, Organization of Programming languages, Data Structures, Data Science, Concurrency and Threading, Professional and academic writing and communications

## TECHNICAL SKILLS

***Programming Languages***: JavaScript, Java, PHP, MySQL, SAS, C, Python
***Technologies:*** Git, Unix/Linux, React/Redux, Drupal, Node.js

## PROJECTS

**Taapp.cs.umd.edu**
Created and proposed a full stack web application for potential TA to apply which got accepted by the CS Department. Currently deployed and under active development.

**MiniC Compiler**
Used Ocaml to write a C compiler which uses Regular Expressions to Tokenize Data, parses statements and expressions using pattern matching and then runs the code

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

**Web Server**
Made a media and web server using docker containers which streams media to all my devices and hosts my website

## ACTIVITIES

**Terps In Space** *Fall* 2017
Proposed an experiment to test the virulence attenuation of Pseudomonas bacteria in microgravity to Student Spaceflight Experiments Program

**TSAN.UMD.EDU** *Summer 2017*
Created tsan.umd.edu for the Telecommunication program of UMD

## OPEN SOURCE CONTRIBUTIONS

- Contributed to the documentation for Facebook's React.js and added explanations for passing props in the 'Intro to React' page
- Converting Philipp Spiess, React.js DOM contributors, newsletter website from static to React using React Static

## WORK EXPERICENCE

**React and Drupal Developer** April 2018- *present*
*Joint Quantum Institute (JQI), College Park*
- Create an NSF Funded Open Source React-based Single page Web Application for presenting interactive Quantum Physics Experiments
- Use Green Sock for interactive animations as React components and Webpack to render static bundles
- Implement service workers for caching, increasing performance and a sync loading on client side using Google's Workbox
- Update and maintain the JQI's Drupal website's core and modules and improve functionality of the website

**Student System Administrator** May 2018- *present*
*Department of Computer Science, University of Maryland*
- Maintain the CS Department network, managing Mail Servers, VLAN network and Web Servers
- Create automated scripts to set up new accounts, web pages and VMs and new Red Hat Systems through Cobbler
- Work and communicate with faculty, staff and students to resolve their technical problems

**Student Web Developer** May 2017- *May 2018*
*Department of Resident Life, University of Maryland*
- Proposed migration of the website from Static to Dynamic (Drupal) for better content management and maintenance and made a demo
- Managed Department of Resident Life and Counselling Center website
- Made the existing websites web accessible

**Teaching Assistant** Fall 2017, Spring 2018
*Department of Computer Science, University of Maryland*
- Created course materials and taught a class of 30 and held office hours to help with programming assignments and explain OOP concepts.

**Undergraduate Research Assistant** Jul 2017-*September 2017*
*Department of Criminology and Criminal Justice, University of Maryland*
- Worked with Professor Dr. David Maimon in an NSF funded project on studying the behavioral model Wi-Fi network access
- Sniffed network traffic from location's Wi-Fi and analyzed the data packets captured by WireShark by creating models in Excel to show outgoing traffic from less secure networks

**Undergraduate Research Assistant** May 2017-September 2017
*Maryland Information and Network Dynamics (MIND) Lab*
- Worked with Professor Dr. Ashok Agarawala and PhD candidates in a team to create an Android app to help determine the exact location of a person including the room and the floor of the building using Wi-Fi access points