

# Apoorv Mittal

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## EDUCATION

### University of Maryland, College Park

*B.S., Computer Science. GPA: - 3.845,*

*Graduating December 2019*

## RELATED COURSES

Introduction to Computer Systems, Applied Probability and Statistics, Algorithms, Organization of Programming languages, Data Structures, Data Science (in Python), Concurrency and Threading

## TECHNICAL SKILLS

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

**Technologies:** 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 EXPERIENCE

### React and Drupal Developer

*April 2018- present*

*Joint Quantum Institute (JQI), College Park*

- Creating an NSF Funded Open Source React-based Single page Web Application for presenting interactive Quantum Physics Experiments
- Using Green Sock for interactive animations as React components and Webpack to render static bundles
- Implemented service workers for caching, increasing performance and a sync loading on client side using Google's Workbox
- Updating and maintaining the JQI's Drupal website's core and modules and improving functionality of the website

### Student System Administrator

*May 2018- present*

*Department of Computer Science, University of Maryland*

- Maintaining the CS Department network, managing Mail Servers, VLAN network and Web Servers
- Creating 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