

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 EXPERIENCE

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