Apoorv Mittal

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EDUCATION

University of Maryland, College Park
***B.S.**, Computer Science. GPA: - 3.845, Graduating May 2020*

RELATED COURSES

Theory of Artificial Intelligence, Introduction to Computer Systems, Discrete Structures, First-Year Innovation and Research Experience, Applied Probability and Statistics, Algorithms and Organization of Programming languages

TECHNICAL SKILLS

Programming Languages: JavaScript, Java, Ocaml, C, PHP, MySQL
Technologies: Unix/Linux, React/Redux, Drupal, Node.js

PROJECTS

MiniC Compiler
Used Ocaml to write a 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 updates in real time, uses Node.js to on the server side and uses socket.io as web socket providing lightweight bidirectional real-time communication

Web Server
Web server build using ubuntu server and Docker. Used Docker containers to make a media server which has capabilities to stream media files to all my devices. It also acts like an independent web server.

ACTIVITIES

Terps In Space *Fall* 2017
Made an experiment to test the virulence attenuation of Pseudomonas bacteria in microgravity and proposed it to Student Spaceflight Experiments Program (SSEP)

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 and added explanations for passing props in the Intro to React page

WORK EXPERICENCE

React and Drupal Developer April 2018- *present*
Joint Quantum Institute (JQI), College Park
- Creating an 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
- 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, College Park
- Maintaining the CS Department network, managing Mail Servers, VLAN network and Web Servers
- Setting up VMs and new Red Hat Systems through Cobbler and managing them through Puppet.
- Creating automated scripts to set up new accounts, web pages and VMs on CS servers

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
- Taught and created course materials for the OOP class (CMSC131)
- 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 analyze the data packets captured by WireShark
- Helped create models by Data mining 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