Shivam Agrawal

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Education
University of Maryland, College Park
Bachelors of Science in Computer Science, Class of 2020

Researcher   **Fall 2017 - Current**

Math Directed Reading Program - http://drp.math.umd.edu/
- Working with graduate student Nathaniel Monson to understand the mathematics behind neural nets and to apply what we learned to classify the MNIST digit dataset.
Code: https://github.com/ShivamHacks/DRP-Neural-Nets

Consultant   **Fall 2017 - Current**

Change the World Consulting - https://go.umd.edu/ctwconsulting
- Working with a team of undergraduates to provide marketing guidance to ArtsCentric, a Baltimore-based theater company.

Entrepreneur   **Summer 2016**

PictureUs - https://github.com/ShivamHacks/PictureUs
- Created a photo sharing app for Android from scratch. Unlimited and instantaneous photo sharing and backup. App is permanently off the market as of July 2017.
- Over 5000 lines of code in NodeJS and Java combined. Deployed on AWS Elastic Beanstalk, using MongoDB as the database and Cloudinary as the image back-end.

Web Developer   **Fall 2015**

GNext Education - Edison NJ
- Responsible for developing and managing all software regarding the company's robotics competition, SALL Champs, including website, social media, and live stream.

Intern Lead, Content Developer, Speaker   **Summer 2015**

ICEpiration - Somerset NJ - http://icepiration.com/
- Led a team of interns in developing and presenting the technology portion of the content for a tech-entrepreneurship boot camp. Taught students concepts of full stack computer programming, and walked them through a demo full stack web application.

Relevant Coursework:
- CMSC132: Object Oriented Programming II
- STAT400: Applied Probability and Statistics
- MATH241: Calculus III

Clubs and Programs:
- Quantitative Finance Society
- First-Year Innovation and Research Experience
- Club Tennis & Club Table Tennis

Languages and Skills
- Java
- Python
- HTML/CSS/Javascript
- NodeJS & Express
- Android App Development

Cloud Services
- Amazon Web Services (DynamoDB, Lambda, Elastic Beanstalk, S3)
- Facebook Messenger API for chatbots
- Heroku Server Deployment

Proficient In
- Excel
- Github
- Android Studio

Familiar with
- OpenCV
- MongoDB
- Google Cloud Platform

Currently Learning:
- Tensorflow
- Matlab, R

Conferences and Competitions
- HopHacks 2017
- PennApps 2016
- HackRU 2015
- We The People National Finals
- North American Invitational Model United Nations
- National High School Model United Nations
- New Jersey Future Business Leaders of America State Leadership Conference