

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 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.
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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
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Cloud Services

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

- Excel
 - Github
 - Android Studio
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Familiar with

- OpenCV
 - MongoDB
 - Google Cloud Platform
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Currently Learning:

- Tensorflow
 - Matlab, R
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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