

Shivam Agrawal

github.com/ShivamHacks | shivamhacks.github.io

EDUCATION

University of Maryland, College Park
B.S. in Computer Science

GPA: 4.00
Expected Graduation: May 2020

EXPERIENCE

Engineer

The Diamondback Lab

College Park, MD

February 2018 - Current

- Using predictive analytics to increase the readership of the UMD student run newspaper.
- Maintaining core website and developing creative projects such as the student voted March Madness Bracket.

Consultant

Change the World Consulting

College Park, MD

September 2017 - December 2017

- Worked with a team of undergraduates to provide marketing guidance to ArtsCentric, a Baltimore-based non-profit theater. Focused on increasing volunteer recruitment and retainment, devised several solutions ranging from partnership strategies to methods for improving their digital presence.

Web Developer

GNext Education

Edison, NJ

September 2015 - December 2015

- Developed and managed website and social media for the company's premier robotics competition, SALL Champs. Built in HTML, CSS, and Javascript, using a Parse backend with the PubNub API.

Lead Intern, Content Developer, Speaker

ICEpiration

Somerset, NJ

May 2015 - August 2015

- Co-Led a team of 5 high school interns in teaching computer science for a technology-entrepreneurship bootcamp.
- Taught over 20 students the concepts of full stack computer programming.
- Developed and demoed an example chat server for the students to analyze.

PROJECTS

PlannrBot

Winner: Top Ten Hacks - HopHacks Winter 2018

- Built a voice enabled bot that helps plan vacations. Say "Going to Boston in a week, planning on skiing and visiting family." Response will include a packing list, sample itinerary, and important facts such as weather.
- Wrote NLP algorithm in Python using data from Google and Yahoo APIs. Frontend was built with Artyom.js.

Built Neural Network from Scratch

September 2017 - December 2017

- Translated mathematical foundations of neural networks into a Python library under the guidance of graduate student Nathaniel Monson. Presented at the University of Maryland Math Department.

BusNotify

PennApps Fall 2016

- Created mobile app that notifies students two minutes before their bus comes to their stop using crowdsourced data. The app works by using motion detection to sense when students get onto the bus and uses this information, as well as traffic estimations, to predict the arrival time of the bus at future stops. Built with Java and NodeJS.

ACTIVITIES

Quantitative Finance Society

- Researching techniques and strategies for algorithmic trading. Testing algorithms on Quantopian platform.

First Year Innovation and Research Experience

- Conducted data-driven research on factors affecting global entrepreneurship. Related predictor variables such as industry, country of origin, and education of founder to entrepreneurial success.

SKILLS

Languages: Java, Python, C, Javascript, HTML, CSS

Working Knowledge: Arduino, Tensorflow, OpenCV, MongoDB, Amazon Web Services, Heroku

Tools: Git, Excel, UNIX Command Line, Android Studio, Audacity

Coursework: Applied Statistics and Probability, Multivariable Calculus, Object Oriented Programming

----- In my free time, I compete on kaggle.com, play tennis, and read machine learning papers -----