

Rishab Chawla

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Education

Rutgers University - New Brunswick

GPA: 3.801

B.S. Computer Science, minor in Economics

Sept. 2016 – May 2020

- **Relevant Coursework:** Data Structures and Algorithms, Computer Architecture, Systems Programming, Operating Systems, Software Methodology, Databases, Probability Theory **In progress:** Internet Technology, Artificial Intelligence
- **Extracurriculars:** HackRU RnD Developer, RUMAD, Orientation Leader, Alternative Breaks Service Trip Participant
- **Dean's List:** Awarded all semesters

Experience

Capital One

Richmond, Virginia

Software Engineering Intern

Jun. 2019 – Aug. 2019

- Designed a relational graph of **AWS IAM** that describes trusted principals between entities and permissions granted to engineers
- Programmed the relational graph using **AWS Neptune** by querying data from a **PostgreSQL** database with JSON documents
- Developed a command line interface tool in **Python** to answer questions about Capital One's cloud footprint and IAM entities

Behavioral Informatics Laboratory

New Brunswick, New Jersey

Data Science Research Assistant

May 2018 - Sept. 2018

- Leveraged the Google Forms platform using **JavaScript** to develop surveys that label datasets of 2000+ Instagram posts
- Built ML classification models to assist in automatic cyberbullying detection and presented visualizations of results in **Python**

Teaching

Rutgers Learning Centers

New Brunswick, New Jersey

Learning Assistant for Intro to CS, Data Structures and Physics

Jan. 2018 – Present

- Challenged 50 students to discuss efficient solutions to problems using stacks, queues, trees, hashmaps, and graphs in **Java**
- Facilitated recitations of 40 students working in small groups to effectively cooperate and conduct physics experiments

Rutgers University Career Services

New Brunswick, New Jersey

Exploring Economics FIGS Instructor

Apr. 2018 – Dec. 2018

- Selected as one of 100 undergraduates to teach an accredited college-level course introducing undergraduates to economics
- Developed a 10-week activity-based lesson plan on topics such as game theory, cryptocurrencies, and career development
- Mentored 25 first-year students during their transition to Rutgers University by presenting them with on-campus resources

Projects

MapReduce

- Recreated the **Hadoop** MapReduce programming paradigm in **C** using multiple concurrent Linux processes and POSIX threads
- Processed word count and integer sort applications to test the difference in execution time between both methods

CrowdPlay | Best Use of Twilio API at HackRU Spring 2018

- Engineered a text-messaging service using **Python's Flask** microframework integrated with **Twilio** and **Spotify's API**
- Implemented a crowdsourced priority queue to handle user song requests and provide information about upcoming songs

RUcycle

- Developed an **Android** app with **Java** that captures an image of an object and tells the user the recyclability of the product
- Utilized the Wolfram Alpha image identifier to classify captured images of objects correctly with over 50% accuracy

Rock Paper Myo | Best Hardware Hack at HackRU Fall 2017

- Interfaced an Arduino and Myo armband to build an AI machine that always beats a player at rock, paper, scissors
- Programmed machine responses in **C++** to detect the player's hand movement by tracking hand gestures from the Myo armband

Skills

Languages Java, C, Python, SQL, Swift, HTML, CSS, JavaScript

Frameworks JavaFX, JSP, Flask, Pandas, Matplotlib, Bootstrap

Tools AWS, Git, Linux, Xcode, Adobe XD