

Advith Chegu

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Education

Rutgers University SAS Honors Program — New Brunswick	8/2018 — 5/2022
<i>B.S. Computer Science & Statistics</i>	GPA: 3.8/4.0
Relevant Coursework: Data Structures/Algorithms, Software Methodology	
Principles of Data Management, Computing in Applied Statistics	
Languages: Java, Python, C, R, JavaScript (ES6), SQL	
Technologies: Git, Firebase, NodeJS, Bootstrap 4, Kubernetes, Docker, ReactJS, Heroku, SQLAlchemy, Flask	

Experience

Data Science Intern — Colgate-Palmolive (Piscataway, NJ)	5/2020 — Present
<ul style="list-style-type: none">- Developed a Rest API to calculate toothpaste formula risk saving chemists tedious calculations- Created an in-house toothpaste recommendation system using NLP built with ReactJS pulling data from PostgreSQL and Google Big Query saving \$200 monthly on outsourcing costs- Designed and deployed a database with SQLAlchemy for Colgate whitening device experiments	
Full Stack Developer — Nutrivide (New Brunswick, NJ)	7/2019 — 9/2019
<ul style="list-style-type: none">- Designed and programmed a website with Bootstrap 4 to advertise the Nutrifier prototype- Used a MySQL database to keep track of clients and deployed on Heroku saving \$400 annually on hosting- Built an emailing system implemented in PHP to automate 15 monthly man-hours	
Research Assistant — Intelligent Visual Interfaces Lab (New Brunswick, NJ)	2/2020 — Present
<ul style="list-style-type: none">- Assisted in the research of Node-Level Embedding for Directed Cyclic Graphs with Python- Used the PyTorch, Snap, NetworkX and Gensim libraries for graph cycle detection and machine learning	

Hackathons

RUHome? — Best Use of Twilio API HackNJIT 2019
<ul style="list-style-type: none">- Smart doorbell with integrated Azure facial recognition and Twilio text alerts using Python- Uses a model trained with images from Flutter app and Firebase to find name of person at the door
PutMeOn — Summer Project 2020 (In Progress)
<ul style="list-style-type: none">- Website built with ReactJS and deployed on Heroku using JavaScript, TypeScript, and Spotify API- Builds a bridge of songs between two selected artists and curates a specialized playlist on Spotify
GarbageTrack — Best Use of IoT HackTCNJ 2019
<ul style="list-style-type: none">- Uses a DragonBoard 410c to measure amount of garbage in any bin using GPIO in C- Updates status of all bins on a Google Map in realtime using Java, Android Studio, and Firebase
RUSingle? — HackTCNJ 2020
<ul style="list-style-type: none">- Builds a Random Forests model with scikit, numpy and pandas based on user preferences on tinder- Automate the left and right swiping process by analyzing faces and predicting the outcome with selenium
Twitter Dashboard — Best Social Justice Hack HackDown 2020
<ul style="list-style-type: none">- Uses the Gensim library to create an LDA topic model on news articles- Given a twitter username, uses Flask and ReactJS to show user's most tweeted about topics

Leadership/Outreach

Rutgers Club Swimming Treasurer — Created a budget and handled transactions of more than \$15,000 for a team of 60 swimmers. Also created a website with ReactJS and deployed with Heroku .
SASHP Peer Tutor — Voluntarily tutored freshmen weekly in Intro to CS, Data Structures and Basic Stats
Teaching/Learning Assistant — Taught CS111 (Intro to CS) and MATH123 (Prep for Calc) Fall 2019
USACS Peer Mentor — Mentored freshman computer science students by advising in class selection and helping with coursework at the Cave in Hill Center