

# Advith Chegu

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## Education

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**Rutgers University** SAS Honors Program — New Brunswick 8/2018 — 5/2022  
*B.S. Computer Science & Statistics* **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, PostgreSQL, Flask

## Experience

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**Data Science Intern** — Colgate-Palmolive (Piscataway, NJ) 5/2020 — Present  
- 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  
- Deployed **Selenium** and **Locust Scripts** in **K8s** pods to automate **25** monthly man-hours of testing

**Full Stack Developer** — Nutrivide (New Brunswick, NJ) 7/2019 — 9/2019  
- 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  
- Used an emailing system implemented in **PHP** to automate **15** monthly man-hours

**Research Assistant** — Intelligent Visual Interfaces Lab (New Brunswick, NJ) 2/2020 — Present  
- Assisted in the research of Node-Level Embedding for Directed Cyclic Graphs with **Python**  
- Used the **NumPy**, **Snap**, **NetworkX** and **Gensim** libraries for graph cycle detection and machine learning

## Hackathons

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**RUHome? — Best Use of Twilio API** HackNJIT 2019  
- 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)  
- 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  
- 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**  
- 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  
- Uses the **Genism** 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

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**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