

Advith Chegu

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Education

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)

Technologies: Git, Firebase, Bootstrap 4, Kubernetes, Docker, ReactJS, Heroku, PostgreSQL, Flask

Experience

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 with **ReactJS** pulling data from **PostgreSQL** and **Google Big Query** saving **\$200** monthly on outsourcing costs
- Deployed **Selenium Scripts** in sidecar containers to automate **25** monthly man-hours of QA 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

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**

MoodMusic — HackRU 2018

- Uses the OpenWeatherMap API to identify conditions outside built with **Python**
- Offers playlists using SoundCloud to users based on the weather built with **Java** and **Android Studio**

Leadership/Outreach

Rutgers Club Swimming Treasurer — Created a budget and handled transactions of more than **\$15,000** for a team of **60** swimmers. Also talked to numerous companies for sponsorships and fundraisers

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