ADARSH RAO

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EDUCATION

University of Pennsylvania | GPA: 3.95   2019 - 2023
Bachelors of Science: Computer Science
<u>Relevant Coursework:</u> Discrete Math, Data Structures and Algorithms, Multivariable Calculus, Linear Algebra, Scalable and Cloud Computing, Probability, Computer Systems, Databases

SKILLS

Languages	Javascript, Java, Python, OCaml, Swift, C
Backend Technologies	Node.js, Express, Django, MongoDB, MySQL, AWS, Sci-Kit, Keras
Frontend Technologies	React, EJS, Bootstrap, HTML5, CSS3, JQuery, iOS Development

EXPERIENCE

Software Engineering Intern   June 2020 - Sept 2020
Exar North Partners   *New York City, NY*

- Improved system to parse, analyze and classify SEC filings to provide investment insights; cut processing time by 50%
- Developed user platform with Django and MySQL to display analysis and insights to users
- Created text-match algorithm to find similarities across filings using techniques like Jaccard Index and Ratcliff-Obershelp similarity; decreased false positive match rate by 10%

PROJECTS

MyBook — Designed and built a lite, scalable version of Facebook with fully functional messaging, search, friends, friend requests, status updates, profiles, posting, online friends, a friendship visualizer, secure log in, and account creation. Built out with AWS, Apache Spark, Node, Express, and DynamoDB

Flulytics — Utilized public NCBI data to create and visualize pairwise genome sequence alignment of viral strains to provide insight on areas with high mutation likelihood. Used Sci-Kit to train a logistic regression model to assess transmissivity risk on new strains using historic data

ClinicConnect — Utilized US clinical trial data to create a platform meant to streamline citizens locating and signing up for clinical research sites. Used Javascript, PostgreSQL, Node, and Express to build application

EXTRA-CURRICULAR ACTIVITIES

- **Software Engineer, Penn Aerospace Club**
  Part of PAC's balloon team that regularly launches balloons to collect data on atmospheric conditions
  Experience with data signaling and transmission, Arduino circuitry, and website development

- **Teaching Assistant, CIS-195 (iOS Development)**
  Hold office hours, provide engaging lecture material, provide guidance through mobile development process

- **Weiss Tech Fund**
  Help provide pre-seed, non-dilutive funding to on-campus tech startups

AWARDS AND COMMUNITY SERVICE

- HackPrinceton - Most sustainable, Facebook Data for Social Good (Devpost)
- PennApps - Top 30 (Devpost)
- Jumpstart (HS Club) - Fundraised throughout year to provide $3,000 scholarship for underprivileged students.