AJAY VIJAYAKUMAR

ajayvijayakumar2018@gmail.com | 508.714.8880 | github.com/ajayvijayakumar123 | linkedin.com/in/ajayvijayakumar1 | U.S. Citizen

Education

Georgia Institute of Technology

Atlanta, Georgia

B.S. in Computer Science (Artificial Intelligence & Information Internetworks)

August 2018 – December 2021

Study Abroad: GTL (Summer 2019) coursework supplemented with immersive travel across 10 European countries

GPA: 4.0

Experience

American Express

Phoenix, Arizona (Remote)

July 2020 – August 2020

Software Engineer Intern | Payments

- Ensured consistent performance for 63 million global card members across 5 markets by building 80+ reusable UI and API validation steps for 30+ user payment journey scenarios using Cucumber.js and Selenium
- Restructured regression testing architecture from Java to JavaScript to enhance code maintainability and testing scalability for the Manage Your Card Account page, impacting a team of 15 engineers
- Automated file conversion to alter 1000+ lines of use-case requirements using Python, saving 6 hours of manual entry

Humor Genome | Vertically Integrated Project

Atlanta, Georgia

Research Team Lead January 2019 - April 2020 Led team of 6 to develop comedic NLP algorithms by coordinating and executing multi-faceted project proposal

- Wrote status microservice endpoint using Java Spring and MongoDB to ensure user does not receive partial data
- Created feature metric using GloVe wordnet API and cosine distances to measure incongruity level of sentence
- Engineered Python scripts to classify 14 comedians and 30+ categories from 9,000+ jokes using LDA topic modeling and SVM models to better understand political humor
- Incorporated tf-idf vectorization into supervised algorithm to improve accuracy by 33% and address repeated phrases among comedians

Projects

you're a S.T.A.R.

Atlanta, Georgia

Personal Project

Aug 2020 - Present

Built REST API to store and filter personal experiences for behavioral interview preparation using Java Spring and MongoDB

European Train Database System

Metz, France

Database Systems Project Member

May 2019 – August 2019

- Developed an EER diagram and schema to model train system using 10 entities, 35 attributes, and 6 relationships
- Implemented 7 stored procedures to optimize train routes, register/login users, and calculate costs using MySQL

Distance Teaching and Mobile Learning

Atlanta, Georgia

Project Member | Performance Prediction

October 2018 – May 2019

- Evaluated language proficiency metrics of 22 games used by 100,000+ elementary school children across 177 countries
- Generated Pearson correlations between 24 textual features to analyze trends in students' performances using **Python**
- Produced 10+ visualizations using matplotlib to illustrate relationships between student demographics and learning rates

Leadership

Alpha Kappa Psi (Professional Co-ed Business Fraternity)

Atlanta, Georgia

Athletics, Brotherhood, Corporate Sponsorship

June 2019 – Present

- Raised \$700+ to finance organizational needs and initiatives by contacting 50+ companies for sponsorship opportunities
- Spearheaded 6 football tailgates and a 3v3 basketball tournament to inspire brotherhood and healthy lifestyles
- Coordinated an interactive social media platform designed to track and encourage 65+ brothers' workouts and diets
- Investigated 30+ rows of survey results regarding brothers' feedbacks to revamp weekly meetings' intentionality and affinity
- Organized 2-day weekend retreat for 30+ brothers using \$300+ budget in a team of 4 to enhance inclusivity

Skills & Interests

Programming: Python, Java, JavaScript, HTML/CSS, C (intermediate), SQL (basic), jQuery (basic)

Technologies: Flask, MySQL, Selenium, Numpy, Pandas, Matplotlib, Git, ReactJS (basic) Languages: English (native), Tamil (fluent), French (limited working proficiency)

Dream Journaling, Basketball, Martial Arts (2nd Degree Black Belt), Travel Photography, Reading, Fashion Interests: