ALLISON KWAN

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EDUCATION

Georgia Institute of Technology, Atlanta, GA   Exp. Graduation: Dec 2023
Bachelor of Science in Computer Science   GPA: 4.0
Coursework: Data Structures & Algorithms, Objects & Design, Object-Oriented Programming, Computer
Organization & Programming (machine language, assembly language), Discrete Math, Linear Algebra

SKILLS

Programming: Java, Python, JavaScript, HTML, CSS, MATLAB
Technologies: React, Flask, Git, AWS Elastic Beanstalk, AWS CodePipeline, Heroku, Selenium, JUnit
Software: QlikView, Confluence, Figma, Excel, LabVIEW

WORK EXPERIENCE

Data Visualization Intern, Analog Devices   May 2021 – Aug 2021
- Developed a collaboration website for the Automotive Customer Quality team to communicate current key performance metrics to upper-level management executives and external auditors.
- Embedded 45 QlikView charts in the website to display live data pulled from remote servers.
- Redesigned a QlikView dashboard to help 20 engineers identify major disruptions in 200+ ongoing global business-to-business product quality processes.
- Developed a script (Selenium, Python) to automate engineers' completion of recurring web browser tasks.

Software Development Lead, Tree-Plenish, 501(c)(3) Nonprofit   Jan 2021 – Present
- Created a full stack web application (React, Flask) for 2,000+ student volunteers across 20 states to access and download school-specific private data from a PostgreSQL database managed by AWS RDS.
- Developed a Web API (Flask) to retrieve data and secured endpoints with HTTP Basic Authentication. Deployed website with AWS Elastic Beanstalk and AWS CodePipeline.
- Designed a method to collect marketing campaign data by adding parameters to destination URLs. Collaborated with intern to develop a Python script to parse key metrics from access logs.

PROJECTS

Voices of the Vaccine, Hacklytics (555 Global Participants), Best Overall Project   Feb 2021
- Preprocessed and labelled a dataset of 80,000+ COVID-19 tweets with VADER sentiment analysis tool.
- Developed a bidirectional recurrent neural network (TensorFlow; 90% accuracy) to perform sentiment analysis on 20,000+ vaccine tweets scraped from the web using Twitter API.
- Designed interactive geographic data visualization tool (Plotly, Dash) to enable healthcare officials to identify potential locations for educational campaigns by monitoring public opinion towards the vaccine.

LEADERSHIP & ACTIVITIES

Front-End Developer, Big Data Big Impact   Jan 2021 – May 2021
- Constructed a mobile application (React Native) for users to upload a crop image and determine disease present on the crop in real-time with a convolutional neural network (TensorFlow; 94% accuracy).
- Worked in sprints by collaborating with 3 other developers; presented updates in stand-up meetings.

Senior Consultant, 180 Degrees Consulting Georgia Tech   Jan 2021 – Present
- Led a team of 7 consultants to create and implement a targeted user growth strategy for iAccessLife, a mobile app (4,500+ global users) allowing users to review public places' accessibility levels.
- Led a team of 5 consultants to redesign a member website for the Junior League of Atlanta (3,500 members) to improve user experience and increase volunteers' understanding of their role in the organization.