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, Systems & Networks, Database Systems, Objects & Design, Computer Graphics

SKILLS

Programming: Java, Python, JavaScript, SQL, PL/SQL, HTML, CSS, R, C, MATLAB
Technologies: React, Flask, Git, AWS Elastic Beanstalk, AWS CodePipeline, p5.js, Heroku, Selenium, JUnit
Software: Oracle Application Express (APEX), Oracle SQL Developer, Oracle Rest Data Services (ORDS), QlikView, Confluence, Google Analytics, Figma, Excel, LabVIEW

WORK EXPERIENCE

American Express, Software Engineering Intern   May 2022 – Aug 2022
- Developed a web application to consolidate service status, file system, and OS data from 150+ servers supporting 14 finance platforms used by 200 development & 3,000+ business users, saving 90 hours per month of engineers performing manual reactive health checks, empowering engineers to proactively identify issues.
- Enabled users to have self-service access to data, reducing total support team inquiry volume by 20%.
- Implemented ability to call a REST API on-demand to update database content & display real-time information.
- Wrote 61 advanced SQL queries supporting interactive charts, incorporating drill-down functionality.
- Designed entire user interface, highlighting specific charts deemed necessary through stakeholder interviews.

Tree-Plenish, 501(c)(3) Nonprofit, Software Development Lead   Jan 2021 – Present
- Created a full stack web application (React, Flask) for 2,000+ student volunteers from 300+ schools across 41 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.
- Refactored entire application to integrate with revised database schema, reducing load time by 80%.
- Developed a graphical user interface (GUI) with Tkinter (Python) for nonprofit executives to view database content without performing SQL queries. Distributed it as a stand-alone executable.

Analog Devices, Data Visualization Intern   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.

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 the 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

Bits of Good, Product Manager   Aug 2022 – Present
- Driving development of a full-stack web application for Southface Institute architects to easily filter and implement technical building standards and disseminate project plans, freeing use of planning resources by 50%.
- Collaborating with engineering manager and designers to consolidate client's requirements into product roadmap consisting of actionable development tasks grouped into epics. Hosting Agile ceremonies such as sprint retrospectives.
- Creating product feature specification & product user flow diagram while grooming product backlog and user stories.

180 Degrees Consulting Georgia Tech, Director of Projects   Jan 2021 – Present
- Directed 5 project managers, supporting with weekly check-ins, to ensure all projects exceeded client expectations.
- Managed a team of 6 consultants to develop a strategic go-to market campaign for PCOS Challenge (50,000+ members) to attract support from Twitch streamers to raise $60K in 1 month, their largest campaign to-date.