#### ALLISON KWAN

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## **EDUCATION**

## Georgia Institute of Technology, Atlanta, GA

Bachelor of Science in Computer Science

Exp. Graduation: Dec 2023

GPA: 3.95

#### **SKILLS**

Programming: Java, Python, JavaScript, Dart, SQL, PL/SQL, HTML, CSS, R, C, MATLAB

**Technologies:** React, Flask, Flutter, Git, AWS Elastic Beanstalk, AWS CodePipeline, d3.js, p5.js, Heroku, Selenium, JUnit **Software:** Oracle Application Express (APEX), Oracle SQL Developer, Oracle Rest Data Services (ORDS), QlikView, Tableau, Confluence, Google Analytics, Figma, Excel, LabVIEW

Coursework: Data Structures & Algorithms, Systems & Networks, Database Systems, Info Security, Mobile Apps, Graphics

#### 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 & incorporated 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

- Developed a mobile app (Flutter) for event hosts to notify 4,000+ participants about planting locations & tree deliveries and receive support through integrated access to EZTexting, Thinkific, and other proprietary apps.
- Created a full stack web application (React, Flask) for 3,000+ student volunteers from 400+ 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 web 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 compatible with Mac & Windows machines.

## Analog Devices, Data Visualization Intern

May 2021 – Aug 2021

- Developed a website for the Automotive Customer Quality team to communicate current KPIs to upper-level 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-tobusiness 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, Associate Director of Product

Dec 2022 – Present

- Overseeing 7 project teams, supporting with weekly check-ins, to ensure all products demonstrate value & viability.
- Identifying metrics & analytics to measure product performance, enabling the implementation of feature refinements.
- Setting organization's overall product vision and strategy to provide nonprofit clients with a seamless user experience.

# Southface Energy Institute, Product Manager

Aug 2022 – Dec 2022

- Drove development of a full-stack web app (MongoDB, Express, React, Node) for Southface Institute architects to easily filter and implement technical building standards and disseminate project plans, freeing use of planning resources by 50%.
- Collaborated with engineering manager and designers to consolidate client's requirements into product roadmap consisting of actionable development tasks grouped into epics. Hosted Agile ceremonies such as sprint retrospectives.
- Created product feature specification & product user flow diagram while grooming product backlog and user stories.