ALLISON KWAN

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EDUCATION

Georgia Institute of Technology, Atlanta, GA	GPA: 3.96
Bachelor of Science in Computer Science	Graduation: Dec 2023
Courses: Data Structures & Algorithms, Systems & Networks, Database S	Systems, Info Security, Mobile Apps, Graphics, HCI

SKILLS

Programming: Java, Python, Kotlin, JavaScript, TypeScript, Dart, SQL, PL/SQL, HTML, CSS, R, C, MATLAB Technologies: React, Flask, Flutter, React Native, Git, AWS Lambda, AWS CloudFormation, AWS Cloud Development Kit (CDK), AWS Elastic Beanstalk, AWS CodePipeline, JUnit, Gradle, Apache Ant Software: Oracle Application Express (APEX), Oracle SQL Developer, Oracle Rest Data Services (ORDS), QlikView, Tableau, Confluence,

Google Analytics, Figma, Asana, Excel, LabVIEW

WORK EXPERIENCE

Amazon, Software Development Engineer Intern

- Migrating a shipment lifecycle processing workflow supporting 3 million+ internationally shipped units/month from being backed by a monolithic legacy system into an AWS Lambda backed service (Kotlin, TypeScript) while reducing coupling.
- Developing a new workflow that integrates internal traffic direction software into a shipment service integration layer package, streamlining the gradual dial-up of new features into production.
- Reducing processing time for parallelizable work items (e.g. shipments) up to 200 times based on shipment counts.
- Improving orchestration-related operational workloads by 20% & new orchestration feature development effort by 10%.

Tree-Plenish, 501(c)(3) Nonprofit, Software Development Lead

- Developed a mobile app (Flutter) for event hosts to notify 5,000+ 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 4,000+ student volunteers from 500+ 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.
- 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.

American Express, Software Engineer Intern

- 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.

Analog Devices, Software Engineer Intern

- 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

- 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

Southface Energy Institute, Product Manager

- 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.

May 2022 – Aug 2022

May 2021 – Aug 2021

Aug 2022 – Dec 2022

May 2023 - Present

Jan 2021 – Present

Feb 2021