

KAI YUN

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EDUCATION

Northwestern University
Bachelor's, Computer Science

September 2018 - September 2023
GPA: 3.9

PROFESSIONAL EXPERIENCE

Keli Network Inc.
Software Engineer

Chicago, IL, USA
April 2022 - November 2022

- Deployed and enhanced the internal data analytics web app from Authentic Media Ascension, working closely with Jellysmack engineers and leadership to integrate the app's seamless operation and client satisfaction.
- Delivered app demos to C-suite executives, securing CEO approval for company-wide implementation and wrote comprehensive code documentation.
- Implemented OAuth 2.0 authorization flow for secure access to over 100s of clients' YouTube accounts with manager capabilities.
- Developed and executed tests for each function of the app, ensuring reliability and quick identification of issues.

Authentic Media Ascension LLC
Founding Software Engineer

Chicago, IL, USA
October 2021 - April 2022

- Automated data retrieval and analysis for YouTube clients using Python, Google Cloud Platform, YouTube APIs, and BigQuery, reducing data processing time from 12 hours to 15 seconds.
- Developed a core internal web app with Flask and Streamlit, enabling user authentication, client-specific data requests, and data visualization, contributing to a 504% increase in views and 402% increase in revenue for a client. (House of Bounce)
- Built ETL data pipelines to clean and transform data, and implemented regression and NLP sentiment analysis machine learning models for performance prediction, achieving 91% accuracy in sentiment analysis.
- Enhanced operational efficiency, driving a 133% revenue increase and generating over \$500,000 in revenue, leading to the startup's acquisition.
- Spearheaded the digital transformation from manual Excel processes to automated data storage in BigQuery, improving scalability and enabling advanced data analysis.

PROJECTS & OUTSIDE EXPERIENCE

FitFrame: Automatic Fitness App

January 2024 - Present

- Developed a user-friendly iOS app using Swift aimed at athletes and fitness enthusiasts to streamline daily social media updates by enabling photo capture, storage, and automatic posting to Instagram, enhancing daily user engagement and content management
- Implemented robust features within the app, such as a daily workout log and photo storage system, facilitating users in tracking their fitness progress and simplifying the process of sharing their achievements on social media platforms.
- Designed and integrated an automated posting mechanism that syncs with users' Instagram accounts to schedule and upload posts, significantly reducing the time and effort required for manual updates and improving user experience

Partisanship Detector
Software Engineer

March 2021 - June 2021

- Collaborated with a team of 4 developers and journalists to create a groundbreaking website designed to accurately identify politically charged language, aiding journalists in maintaining unbiased writing
- Designed the back-end infrastructure leveraging cutting-edge NLP libraries, BERT-powered classifiers and trained on the SemEval 2019 Hyperpartisan News Detection dataset
- Enhanced result distribution efficiency by developing Python Email template generator to serialize pipelined results from the Bi-LSTM Revision Model into custom HTML email
- Conducted research sprints consisting of iterative interviews with multiple journalists to refine the prototype, aligning the product with user needs and building confidence in its value proposition

SKILLS

Skills: AWS, EC2, S3, Lambda, Python, C/C++, Google Cloud Platform, Docker, Node.js, jQuery, Git, React.js, REST APIs, SQL, MATLAB, Web Development, NoSQL, JavaScript, React, Tensorflow, SQL, Tensorflow, Next.js, iOS/Swift, Deep Learning, Git