

Kai Hyperion Yun

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Education

Northwestern University

Bachelor of Science in Computer Science | Major GPA 3.8 / 4.0 | Dean's List High Honors

September 2023

Evanston, IL

Past Work Experience

Authentic Media Ascension LLC

October 2021 – April 2022

Digital growth agency with 25+ content creators totaling over 75M followers and 5B views on growth and analytic strategy

Founding Software Engineer

Chicago, IL

- The first founding engineer for the startup, in charge of automating and optimizing data aggregation, and developing the first core internal app prototype that harnesses various APIs to dynamically retrieve and present the snippet and statistics metadata tailored to user preference
- Drove the entire spectrum of the company's tech strategy and initiatives, encompassing data extraction, migrating from manual Excel process to Google's BigQuery database storage solution, and advanced regression analysis powered by machine learning
- Generated over \$500,000 in revenue by leading the digital transformation at a growth agency, optimizing operations and strategies to drive substantial financial growth
- Engineered a seamless transformation from CSV to SQL relational database, orchestrating the deployment of a cloud server enabling streamlined integration into Tableau dashboards and facilitated data retrieval, enhancing the client consulting experience

Jellysmack (Authentic Media Ascension LLC was acquired by Jellysmack)

April 2022 – November 2022

Lead Software Engineer

Chicago, IL

- Guided and collaborated with Jellysmack software engineers and managers in successfully delivering critical projects such as automating company-wide analyses and spearheading the deployment of an internal web application
- Architected a robust Flask micro-framework for the backend server, orchestrating seamless handling of both GET and POST requests from clients and enabling data analysis, visualization, and delivery via HTTP responses
- Implemented OAuth2.0 authorization flow and securely stored user session API keys in an SQL database
- Wrote code documentation that detailed every features and functions of the internal web app

Project Experience

Partisanship Detector | Python, distill-BERT, Captum, Bi-LSTM, JavaScript/CSS/HTML

July 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

Network Scanner Tool | Python, Subprocess, nmap, openSSL, telnet, nslookup, Socket, JSON, MaxMind.db

March 2021

- Programmed a portable Python Network Scanner capable of probing user-specified domains via HTTP requests, DNS queries using the Subprocess module and returning detailed network characteristics in JSON format
- Successfully scanned over 100 explicit domains, providing comprehensive results including TLS/SSL, root CA, RTT range, HTTP STS flags and precise geolocation of servers using MaxMind IP Geolocation database
- Drove project momentum with a cohesive team, consistently delivering on time and efficiently accomplishing goals and tasks
- Enabled users to accurately collect network security data to inform them about basic vulnerabilities they could be exposed to and to create awareness about where the connections are directly tied to

Relevant Coursework & Technical Skills

Relevant Coursework:

Deep Learning, AI/ML, KRR, Scalable Software Architecture, Network, Algorithms, HCI, Data Management/Visualization

Technical Skills:

Python, C++, JavaScript, HTML, CSS, C#, SQL, AWS EC2, Lambda, S3, Flask, Pytorch, Git, Bash/Shell, TensorFlow, Arch Linux, MongoDB, BigQuery, Docker, ROS, Streamlit, Tableau