



KENNY ZHANG



New York Metropolitan Area

(808) 219 - 3366

tzhang808@gmail.com

PROFESSIONAL EXPERIENCE

Deledao

Software Engineer & DevOps

Metropolitan Area, NY

May 2025 - Present

- Maintained and developed a suite of backend systems in Go, including ML server, Email Alert server, etc. Provided root cause analysis, feature developing, and robustness testing.
- Led AWS deployments using ECS and ECR, and service monitoring with CloudWatch.
- Led API integration for new AI servers and restructured existing machine learning server infrastructure, refactoring core code to shift post-processing to AI team APIs and optimize preprocessing for improved workflow, maintaining backward compatibility.
- Designed Freshdesk ticket API workflow for the student wellness alert system, introducing efficiency features that reduced ticket management time by 40% for specialists.
- Automated Cron jobs to export failed Elasticsearch documents to S3 during downtime and efficiently restore documents after service recovery.

Stealth Startup

Software Engineer & AI Engineer

Metropolitan Area, NY

Nov 2022 - May 2025

- Built and maintained FastLive backend services using Golang. Independently developed the core slide-window algorithm, containerized application and wrote Kubernetes configurations, including Deployment, StatefulSet, Ingress, and ConfigMap, Configured Nginx for precise caching to enhance user experience, and managed the migration from PostgreSQL to ScyllaDB for enhanced scalability, collaborated via YouTrack Agile dashboards.
- Developed and maintained a cross-platform desktop application using Node.js and Electron for video encoding and uploading to AWS S3 bucket via API, with automatic syncing to user channels on our platform.
- Fine-tuned OpenAI's large Whisper models and integrated them into the existing live-streaming system to enable real-time captioning.
- Developed a Named Entity Recognition (NER) model for the SEO pipeline by assembling and integrating SpaCy, Stanza, Flair, and CoNLL-based NER models, with final outputs determined via a voting system, leveraging PyTorch and Hugging Face pipelines.
- Efficiently scraped and organized data from platforms utilizing Selenium & BeautifulSoup, and post-process preparation for further data mining jobs.
- Implemented a data integration pipeline for YouTube channels, streamlining data cleaning and report generation processes using YouTube API, REST API, and Python.

The Epoch Times

Data Analyst Intern

Manhattan, NY

Summer 2022 & Summer 2023

- Optimized the Onboarding Portal using data-driven strategies to **maximize user retention**.
 - Developed machine learning models to predict user churn/read activity, based on onboarding portal user behaviors.
 - Generate pipelines and tools to identify critical steps within the onboarding portal using rigorous univariate analyses.
 - Formulate, execute, and evaluate AB tests to iteratively improve the onboarding portal.
 - Utilized Apache Superset to create visualizations for monitoring and evaluating user behaviors & AB test results.
- Utilized statistical and graphical techniques to interpret and analyze data, conducted AB testing, provided comprehensive data analysis and visualization, presented valuable business insights to the CIO and at cross-functional meetings, ultimately resulting in an increased company revenue for the entire population of "Gift" subscription.
- Designed and implemented six data analysis tools for conducting ad-hoc analyses, functions including producing monthly performance reports on all offices, facilitating anomaly detection.
- Managed customer & sales data through ETL pipeline on Hive, using MySQL & Python, facilitating AB testing analysis.

Sound of Hope Radio Network Inc.

Full Stack Developer

Remote

Oct 2022 - Jan 2023

- Developed a full-stack equipment tracking web application using Python Flask and MySQL, deployed on AWS EC2 & RDS via Terraform, with scheduled report syncing to Google Sheets through REST APIs and cron jobs.
- Developed part of an ETL pipeline using YoutTubeAPI to efficiently streamline +1000 rows of monthly data from 4 YouTube channels.

SKILLS & INTERESTS

Programming Languages: Golang, Python, SQL, Javascript, NodeJS, R, HTML, CSS, NoSQL

Frameworks/Tools: Docker, Kubernetes, Git, Elastic Search, Kibana, PyTorch, Electron, Apache Superset, Tableau, Selenium

AWS Services: ECS, ECR, DynamoDB, Cloudwatch, S3, EC2

Exposure to: Terraform, SAS, PySpark, PHP, Gitlab CI, ReactJS, Typescript



KENNY ZHANG



EDUCATION

Fei Tian College

New York

- *B.S. in Data Science*, Dean's List awards
- **Relevant Courses:** Machine Learning & AI, Data Structures & Algorithms, Data Mining, Business Data Analysis, Database Systems, Front-End & Back-End Development, Cloud Computing & Big Data, Survival Analysis, Statistical Computing & Graphics, Directed Study in Machine Learning, Statistical Theory & Methods

PROJECTS

DS Jobs Salaries & Jobs Distributions with Tableau ([Tableau Dashboard](#))

- Processed and refined 51 columns, 253 rows of associated data, including 4 columns of spatial data, using MS Excel
- Developed 6 interactive selectors for customizable data visualization, enabling users to modify and animate 8 different graphs

Web Log Sequential Pattern Mining ([Github](#))

- Developed a scalable pipeline for cleaning and mining over 10 million web log entries, leveraging Apache Spark and Docker to uncover user navigation patterns