



New York Metropolitan Area

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PROFESSIONAL EXPERIENCE

Deledao

Metropolitan Area, NY

Software Engineer & DevOps

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

Metropolitan Area, NY

Software Engineer & AI Engineer

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

Manhattan, NY

Data Analyst Intern

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.

Remote

Full Stack Developer

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 YoutubeAPI 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



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