

Andrew Cho

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SKILLS

Languages: Python • JavaScript • TypeScript • R

Frontend: HTML • CSS • Tailwind • React • Node.js • Next.js

Backend: AWS • Azure • PostgreSQL • MongoDB • Docker • FASTAPI • Flask • Alembic • Firebase

Testing/Tools: Unix • Git • K6 • Loader.io • NGINX • Pandas

EXPERIENCE

Type Better App (Personal Project)

Full Stack Developer (Apr 2022 - Current)

- Full-stack web based typing game for improving speed and accuracy of keystrokes. Version 1 was hosted on **AWS** with **Javascript** and **React** for the front-end with Firebase authentication. The backend controller was built with **Python**, **Flask**, **Postgres** and **AWS**, which served requests from the front-end to store user activities.
- Version 2 was built using **Typescript**, **Next.js**, **Tailwind** and **Vercel Postgres**, and it's [hosted on Vercel](#).

BNY Mellon. Remote

Test Engineer (August 2021 - Apr 2022)

- Built ETLs to integrate data from multiple sources to BNY Mellon's cloud-based data platform for investment managers.
- Troubleshooted and optimized queries at the ETL and data onboarding stage using Azure logs and New Relic.
- Developed unit tests for BNY Mellon's database system in SQL.

Bloomberg LP. New York, NY

Software Engineer (June 2020 - Sep 2020)

- Participated in entry level hire training. Learned about the proprietary technologies that are in use at Bloomberg.

Trading Solution Product Specialist (May 2015 - May 2020)

- Built a reporting tool in Python for clients to process, cleanse, and verify compliance related trading data.
- Conducted onsite meetings with clients to discuss business objectives, and implement technical solutions.
- Regularly participated with general counsels and chief compliance officers to discuss and improve risk and compliance monitoring.
- Monitored SLI and SLO on trading systems for large clients to prevent latency issues.

Two Sigma Investments LP. New York, NY

Compliance Officer (June 2012 - March 2014)

- Monitored trading ideas in real time for compliance purposes.
- Investigated sensitive compliance related matters using data science techniques. Probed large sets of data for compliance related infractions and violations.
- Designed compliance controls in equity trading to minimize regulatory and compliance risks.

PROJECTS

Near Earth Object Query Engine (Sep 2023)

- Built an ETL in python on a csv and json data from NASA/JPL's Center for Near Earth Object Studies.
- Features a query engine with a command-line tool to inspect, and query the dataset of NEOs.
- Used **Python** generator and iterator functions to optimize query performance and implement query limit interface.

Atelier (Oct 2022)

- Refactored an API that uses a monolithic architecture into a micro service architecture using : **JavaScript**, **Postgres**, **pandas**, **Loader.io**, **K6**,

Bloomberg Compliance/ Risk Template Recommender (Sept. 2019 - June 2020)

- Built an NLP based recommendation model. The suggested one of 130 risk monitoring templates based on regulatory guideline notated in text using : **python**, **scikit-learn**, **pandas**, **NLTK**
- Cleaned and normalized 1000+ text data using Pandas and NLTK.
- Built a Machine Learning model using Saikit Learn NLP library and achieved F-1 Score of .61 using K-NN

EDUCATION

Hack Reactor (June 2022 - Oct 2022) - *Advanced Software Engineering Immersive Program (Certificate)*

University of Massachusetts, Amherst, MA (Sept 2007 - June 2011) - *Operations Management (Bachelors)*