
SUMMARY

Experienced in software engineering and ML research with internships in VC. Past work in classification algorithms for healthcare data, infrastructure optimization, distributed systems, and LLM integration. Have extensively worked with HuggingFace, PyTorch, TensorFlow, and Apache Spark.

PROFESSIONAL EXPERIENCE

SILO

Nov 2023 – Present

Co-Founder and Chief Architect

New York City, NY

- Co-designed and developed the Silo project: an innovative ML-embedded GUI for the desktop file system. Enables dynamic handling and sharing of personal data with ML classification for file tree standardization.
- Developed the Silo MVP which can aggregate and organize financial data, including IRS documents, transaction histories, bank statements, etc. A suite of classification algorithms operate on the browser for quick, lightweight use.
- Built classification pipeline using open-sourced Optical Character Recognition (OCR) and OpenCV text-recognition models to pre-process data before SVM classification.
- Organized business model to provide autonomous agents access to organized financial documents via a secure and permission-based API. Working to become “Plaid for X”.

CodaMetrix

Feb 2023 – Sept 2023

Machine Learning Researcher

New York City, NY

- Designed and implemented an LLM-based NER extraction pipeline for noisy EHR data. Used LangChain, HuggingFace, and a customized AWS image to locally host and interact with LLMs from DataBricks, Meta, and Google. Provided GPU access across the ML research team by configuring p3 ec2 instances.
- Improved average performance on rare codes by 0.05 AUC and 0.03 F1 by developing a Bayesian prior to complement the existing the SVM-based model in post-processing.
- Improved F1 by 0.07 on selected rare codes through implementing open-source data cleaning tools. Contributed to company data cleaning automation.
- Worked within Agile Scrum: presented weekly research in demos, attended standups, and contributed to retros.

Flourish Ventures

Aug 2022 – Jan 2023

Venture Analyst

New York City, NY

- Built 5 different web-scraping systems using web-driver automation, Man-In-The-Middle attacks, and varied commercial tooling to greatly improve sourcing team’s lead generation.
- Reorganized and overhauled existing data infrastructure system to handle both historical and incoming data flows.

Zetta Venture Partners

Jun 2021 – Aug 2022

Venture Analyst

New York City, NY

- Contacted and sourced 30+ AI-related companies (pre-series A) weekly. Met with founders and cutting-edge academic researchers to introduce Zetta and broaden the firm’s exposure to commercializing research from universities.

International Monetary Fund

Jun 2020 – Dec 2020

Fall Analyst

San Francisco, CA

- Conducted econometric models in R for senior economists contributing to the IMF’s research on global infrastructure. Responsible for econometric analysis in an 8-member team.
- Proposed and implemented a novel method to proxy infrastructure ROI by using Google Maps API to measure commercial traffic dynamics in under-researched and difficult to survey areas.

EDUCATION

New York University – New York, NY

Aug 2018 – Dec 2022

- Double B.A. in Math, Economics, and Minor in Computer Science. Dean’s List Fall 2021 & Spring 2022.
- **Computer Science Coursework:** Data Structures & Algorithms, Natural Language Processing, Computer Vision, Computer Networks, Agile Programming & Development, Computer Systems Organization
- **Math Coursework:** Calc. Sequence, Honors Linear Algebra, Ordinary Differential Eqtns., Real Analysis, Chaos Theory/Dynamical Systems, Abstract Algebra, Discrete Mathematics, Honors Statistics, Stochastic Calculus

INTERESTS & LANGUAGES

Interests: Surfing; History; Math; Lived in Buddhist Monastery

Languages: English (Native), Spanish (Fluent)

Programming: Python, Java, C++, PySpark, SQL, Git, Docker, Kubernetes, Apache, R, React, Flask, Express, Electron.