

EDUCATION

Stanford University

M.S. in Statistics – Focus on Machine Learning & Artificial Intelligence

Stanford, CA

GPA: 3.6 – Class of 2021

Pennsylvania State University – Schreyer Honors College

B.S. in Industrial Engineering – Math Minor

University Park, PA

GPA: 3.9 – Class of 2019

PROFESSIONAL EXPERIENCES & INVOLVEMENT

leadx.io – Software Engineer

Full-stack engineer responsible for live product systems at early-stage startup

Cambridge, MA

2023 – current

- Designed PostgreSQL databases powering real-time lead discovery and ranking
- Built user-facing API layer enabling seamless access to LeadX's core search engine
- Developed LLM-powered scoring model to rank and prioritize high-quality B2B leads
- Defined CI/CD workflows and monitoring standards for production-grade infrastructure

SparkCognition AI Solutions – Software Engineer

Built production ML pipelines and data systems for applied AI in financial markets

Austin, TX

2022 – 2023

- Built exchange data pipeline using ClickHouse and Databricks to unify market data APIs
- Increased blockchain history processing speed 10x via an Apache Spark implementation
- Deployed PyTorch-based LLM pipeline enabling real-time chatbot interaction and context handling
 - Designed scrapers to collect and preprocess social media data for chatbot training

Algos Algorithmic – Co-Founder & Data Scientist

Developed ML-driven crypto trading systems

Philadelphia, PA

2021 – 2022

- Sample code available via public [algos](#) repository
- Created Decentralized Exchange arbitrage directly interacting with exchange smart contracts
- Implemented data pipeline and engineering for collection, management, analysis, and ordering on four exchanges
- Reacquired full IP rights following wind-down of SparkCognition's financial division

Balyasny Asset Management – Data Intelligence Group Intern

Merged two back testers enabling seamless comparisons for portfolio managers

Chicago, IL

Summer 2020

- Developed a modular backtesting framework for evaluating ML-driven investment signals
- Refactored backtesting pipeline to handle invalid inputs and improve response reliability
- Enhanced the backtest process, achieving a 100x speed increase for several frequently-requested metrics

Deloitte Consulting – Technology Intern

Strategy and Analytics Consultant for a Medicare data processing project

Pittsburgh, PA

Summer 2018

- Created Tableau dashboards from client requests to gain specific insights using scheduled SQL queries
- Wrote ad hoc SQL and stored procedures for the State of Kentucky's integrated eligibility program
- Contributed standard operating procedures for Deloitte's Big Data Solutions Playbook

Financial Network Failure Propagation Research – Academia Research

Investigated how financial network structure plays a role in an organization's risk of bankruptcy

State College, PA

Spring 2018

- Researched and implemented stochastic processes on various types of financial networks
- Modeled historical financial crises in R to find liability structures which could have prevented cascades

SKILLS

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|---------------|-------------------------------------|--------------|-----------------------|
| ▪ Python | ▪ ETL / data pipelines | ▪ PyTorch | ▪ Docker / Kubernetes |
| ▪ Go / Golang | ▪ Hadoop / Apache Spark | ▪ SQL | ▪ Linux Admin |
| ▪ Databricks | ▪ AWS / Azure / GCP | ▪ Git | ▪ Blockchain |
| ▪ NLP / LLMs | ▪ Smart Contracts (Solidity & Pact) | ▪ ClickHouse | ▪ APIs / Websockets |