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## EDUCATION

### Stanford University

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

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

Cambridge, MA

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

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

Austin, TX

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

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

Philadelphia, PA

Developed ML-driven crypto trading systems

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

Chicago, IL

Merged two back testers enabling seamless comparisons for portfolio managers

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

Pittsburgh, PA

Strategy and Analytics Consultant for a Medicare data processing project

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

### An Insiders Edge – Undergraduate Thesis for Penn State

State College, PA

Historical analysis of insider trading on the New York Stock Exchange

2018

- Scraped 10+ million insider trades for 5,400 companies from the Security Exchange Commission's website
- Built predictive model for returns based on features of past trades and company's financial state at the time

### News Reliability Research Sponsored by Booz Allen Hamilton – Academia Research

State College, PA

Built a natural language processing (NLP) algorithm to predict a reputation rating for new pieces

Spring 2018

- Tokenized articles, processed them, and built a language model to output reliability of an article
- Created a Google Chrome extension to display the trust score of articles on webpages
- 3rd place at Penn State College of Engineering capstone showcase out of 300+ projects

**Financial Network Failure Propagation Research – Academia Research****State College, PA***Investigated how financial network structure plays a role in an organization's risk of bankruptcy**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

**Penn State Manufacturing Consulting – for The National Oil Varco****State College, PA & Houston, TX***Deepwater Horizon Gulf Oil Spill Blow Out Preventer Failure – Manufacturing Process Improvement**Summer 2017*

- Contributed to post-incident compliance documentation mapping process improvements
- Analyzed production data to change fabrication methods and routing in order to lower manufacturing rework
- Designed executive-level infographics explaining BOP system, weak points, and risk mitigation strategies

**Wayne Automation Corporation****Norristown, PA***Automate manufacturing and supply chain processes**Summer 2015 & 2016*

- Implemented new automated iOS based inventory system to speed up part picking process
- Developed new machine accountability system for customer maintenance and warranty tracking
- Redesigned assemblies welded to machines to replace them with bolted connections

**FIRST FRC Team 1218 Vulcan Robotics – Student and Alumni Volunteer****Philadelphia, PA***Focused on mechanical and computer aided design of robots (not software for once)**2012 - 2021*

- Team Captain (2014 & 2015)
- Top 10 at FRC at World Championship (2014 & 2015)
- Corporate sponsor liaison for all supporters such as Boeing, Vulcan Springs, TE Connectivity, & NASA (2013 – 2015)
- Volunteer as a team mentor and event volunteer (2016 – 2021)

**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   |