

ERIC ZHANG

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Education

University of Illinois at Urbana-Champaign

Bachelor of Science in Finance and Data Science

Dean's List

Graduation: May 2026

Champaign, Illinois

GPA: 3.9/4.0

Experience

Chamberlain Group

May 2024, August 2024

Data Science Intern | Forecasting, Python, SQL, Statistics

Oak Brook, IL

- Utilized SQL in Databricks to create developer data tables for Chamberlain Group video devices
- Developed **ARIMA, Prophet, 3 Month Moving Average, XGBoost models** in **Python** using SQL tables, adding features to improve accuracy
- Analyzed model effectiveness and accuracy, **presenting findings to leadership and company** in final presentation
- Improved forecasting accuracies by 2x to 3x compared to previous models, resulting in more reliable data-driven decision-making

Motorola Solutions

May 2021, August 2021

STEM Intern | JavaScript, Python, Statistics, Data Science

Schaumburg, IL

- Designed a product called HotSpot aimed at heightening the safety and sanitation standards for air travelers worldwide
- Developed and tested a HotSpot Sensory and Drone Package to gather essential data, showcasing expertise in data importation into thermal density and heat maps using **JavaScript and Python**
- Applied statistical analysis to assess crowd behavior patterns, leveraging data collected by the HotSpot Package, identifying high-traffic areas prone to COVID-19 transmission

Projects

Machine Learning Chatbot | Python, Google Colaboratory

January 2024

- Fine-tuned, tested, and deployed **Falcon-7b LLM** using Torch to develop chatbot generating high-quality midjourney prompts
- Employed **Relevance AI** to generate training dataset of 289 reverse engineered midjourney prompts
- Integrated Falcon-7b model and training dataset into **Google Colaboratory**, using **Python** throughout fine-tuning process

Web Scraper for AAPL Stock | Python

October 2023

- Utilized Python libraries **NumPy, Pandas and Seaborn** to develop a Monte Carlo simulation model for forecasting AAPL stock prices for 100 simulations, given sample starting price
- Used the simulation results to explore different investment strategies, assess risk tolerance, and make informed decisions based on the range of potential outcomes for stock prices
- Conducted risk analysis assessment, comparing the risk vs. expected returns, using **Quantiles and the Bootstrap Method** to calculate the numerical risk of the stock

Extracurricular

International Consulting Network (ICON)

January 2024 – Present

Project Manager

University of Illinois at Urbana-Champaign

- Led multi-disciplinary team to develop client's comprehensive GTM strategy, incorporating technical, competitive, financial, and AI analyses
- Analyzed product against competitive technologies (BLE and RFID), focusing on TCO and technical advantages
- Developed **AI integration strategies** to enhance product capabilities and market positioning
- Formulated pricing strategies and financial models, highlighting cost-effectiveness and value propositions over competing technologies
- Compiled and presented **comprehensive GTM plan** to business panel, enhancing product development, market analysis, customer engagement and operational efficiencies

International Consulting Network (ICON)

August 2023 – January 2024

Consultant

University of Illinois at Urbana-Champaign

- Evaluated start-up client website metrics against competitors, suggesting value-adding elements
- Crafted **comparative matrix slide set** showcasing top projects from pool of 23 for interim presentation, aligning with VC insights, market potential, regulatory compliance, and key considerations
- Developed **rubric-based low-fidelity rating mechanism** for user and stakeholder perspectives on compatibility, content and regulations
- Contributed **actionable insights** to enhance client's online presence, **driving growth and competitive advantage**

Skills

Programming Languages: JavaScript, Python, C++, SQL, HTML/CSS

Developer Tools: DataBricks, Jupyter Notebook, Google Firebase, VS Code, Android Studio

Hard Skills: Financial, Data and Predictive Modeling, Data Visualization and Analytics, Statistical Analysis

Libraries: Pandas, NumPy, Seaborn, Matplotlib, Statsmodels, XGBoost, Scikit-learn, Prophet

Soft Skills: Adaptability, Critical Thinking, Problem Solving, Public Speaking, Time Management, Interpersonal Skills, Ethical Judgement, Attention to Detail