

ANGELA ZHENG

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EDUCATION & SKILLS

Cornell University May 2019

Information Science B.S.
Business Minor

Concentrations:

- Interactive Technologies
- UX/UI Design

Programming: Python (Advanced), Javascript, Java, R, HTML/CSS, Git, SQL

Tools & Libraries: sci-kit learn, React.js, D3.js, Flask, Azure ML Studio, LangChain, Tableau, PowerBI

Skills:

Machine learning (ML) (feature engineering, supervised & unsupervised learning – regression, classification, clustering), natural language processing (NLP), anomaly detection, bias and fairness testing, exploratory data analysis, data visualization, data transformation, relational/graph databases, project management

PROFESSIONAL EXPERIENCE

DLA Piper – Artificial Intelligence and Analytics

New York, NY

Data Scientist

September 2023 - Present

- Built end-to-end anomaly detection ML models guided by legal expert input and academic research.
- Applied NLP techniques (sentiment, topic modeling, n-gram, tf-idf) to unstructured data, improving anomaly detection.
- Led disparate impact analysis of client AI systems by designing experiments and applying selected statistical tests.
- Translated insights into client-facing visualizations using Matplotlib and Plotly.
- Contributed to five published articles analyzing the Inflation Reduction Act's effects on formulary access.
- Architected internal Python libraries and applications to productize fairness assessments of client AI systems.
- Developed full-stack application to streamline legal red-teaming service workflows and improve user experience.
- Presented ML workflows and statistical insights to attorneys and non-technical audiences.
- Collaborated with engineering teams via git on development of internal AI products to improve operational efficiency.

Upstream Security – Automotive Security Firm

New York, NY

Senior Data Analyst

January 2022 – September 2023

- Managed analytics workstreams for three automotive clients to strengthen fleet security.
- Optimized large-scale data ingestion pipelines in Hive, reducing data storage costs by 30%.
- Deployed and monitored ~70 data-driven models to identify vehicle security threats across threat vectors.
- Analyzed vehicle data to reduce threat detection model false-positive rates by 90%.
- Delivered reports and Plotly dashboards to cross-functional stakeholders.
- Built YAML and Kotlin data parsers to ingest high-volume vehicle data for digital twin updates in security product.
- Led bi-weekly forum of data team analysts to discuss new technology and implement innovative team solutions.
- Developed exploratory, time series, and ad-hoc Python frameworks and automations used by the global data team.

Ernst & Young

New York, NY

Senior Forensic Data Analyst

September 2019 – December 2021

- Led staff on internal intelligence engagement to highlight engagement performance insights for national leadership.
- Automated procedures for financial services client in Python to reduce fund calculation time from 2 hours to seconds.
- Presented quarterly "Tech Talks" on innovative solutions to New York data analytics team.
- Developed regression and random forest machine learning (ML) models to identify anomalies in accounting ledger data.
- Led internal financial reporting project to deliver interactive Tableau dashboard with financial insights to leadership.

Forensic Data Analyst

- Designed rules-based testing procedures in SQL to identify anomalous records for a financial services client.
- Visualized insights into Tableau dashboards for financial services client to guide record-processing decision-making.
- Performed data exploration, normalization, data profiling and assessment of large data sources to derive insights.

EXTRACURRICULAR EXPERIENCE

Teacher's Assistant – Advanced Human Computer Interaction

Spring 2019

Treasurer/Choreographer – Cornell's Pandora Dance Troupe

2017 - 2019

VP of Media - Cornell International Affairs Review Organization

2017 - 2019

Game Asset Designer – [Discontinuum](#) (Game)

Fall 2018

Fun Facts – Artist, Equestrian and Dancer