

# JIAJIN ZHOU

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## EDUCATION

### Northeastern University

Master's, Data Analytics Engineering

May 2024 - August 2025

GPA: 3.67

### Miami International University of Art & Design

Bachelor's, Art, UI/UX

August 2017 - June 2021

GPA: 3.67

## PROFESSIONAL EXPERIENCE

### Ford Motor Company

Software Developer Engineer

Miami, FL, USA

September 2024 - Present

- Reduced system downtime by 20% by engineering scalable ETL pipelines to consolidate complex operational data for diagnostics and maintenance, leveraging analytics tools to ensure compliance and support risk management initiatives.
- Improved maintenance scheduling accuracy by 15% by utilizing strong communication skills to coordinate with engineering and maintenance teams, enhancing data-driven decision-making and supporting IoT integration for real-time tracking.
- Accelerated stakeholder reporting by 30% by streamlining data workflows using Python libraries for Microsoft Graph API, Jira API, and Confluence API, delivering efficient solutions aligned with compliance and mobile development requirements.
- Enhanced actionable insights for business operations by leveraging Power BI and Excel to develop UX design-focused dashboards and reports, improving stakeholder understanding of risk management and compliance metrics.

### DS18

Data Analyst Intern

Miami, FL, USA

May 2024 - August 2024

- Reduced manual reporting time by 30% by automating data reporting workflows using SQL and Python, enhancing data accuracy for strategic decision making and compliance monitoring.
- Enabled real-time analysis of key performance metrics by designing and implementing interactive Power BI dashboards, allowing stakeholders to monitor performance trends and operational bottlenecks.
- Improved data-driven decision making for cross-functional teams by analyzing large-scale transaction datasets and presenting actionable insights to both technical and non-technical stakeholders.
- Enhanced compliance and reporting processes by documenting analysis results and automated workflows to support compliance initiatives and facilitate alignment with evolving standards.

## PROJECTS & OUTSIDE EXPERIENCE

### Excel Data Automation Ford U.S.A Fleet Management

December 2024 - Present

- Reduced manual processing time by 50% by developing a Python-based automation system leveraging Microsoft Graph API to extract, standardize, and process compliance-related data.
- Improved data accuracy and operational efficiency by integrating multiple data sources for comprehensive regulatory analytics and implementing consistent data quality control.
- Enabled scalable and compliant reporting by automating recurring Excel-based workflows and dynamically generating dashboards tailored for regulatory reviews and internal audits.
- Enhanced long-term system resilience and regulatory readiness by establishing standardized data governance protocols and implementing automated quality checks to maintain compliance with regulatory standards.

### OTA In Vehicle Testing Data Automation and Report

March 2025 - Present

- Reduced data processing time by 50% by developing an automation tool using Python and MS Graph API to streamline in-vehicle testing data extraction and transformation, enhancing compliance reporting efficiency.
- Improved data quality and compliance by integrating multiple data sources and standardizing data flows, supporting comprehensive analytics and operational efficiency for regulatory adherence.
- Enhanced team productivity and regulatory alignment by standardizing workflows and creating clear documentation, ensuring processes met compliance and insurance industry standards.

## SKILLS

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**Skills:** SQL, Python, Power BI, Git, HTML/CSS, Business Analytics, Excel/Numbers/Sheets, qlik sense, C/C++, Bash, Docker, Google Analytics, GraphQL, JIRA, Jupyter, LLM, MongoDB, MySQL, Natural Language Processing (NLP), NLTK, NoSQL, NumPy, Pandas, Agile, Airflow, Tensorflow