

# Jiachen (Jason) Zhong

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## EDUCATION

### University of Washington, Seattle, WA

M.S., Computational Finance and Risk Management, Sep 2023 – Dec 2024

### University of Amsterdam, Amsterdam, The Netherlands

M.S., Data Science and Business Analytics, Sep 2022 – Aug 2023

B.S., Econometrics and Data Science, Sep 2019 – Jul 2023 | Additional 30 ECTS Communication Science Minor

## TECHNICAL SKILLS

- **Programming & Tools:** Python, R, SQL, Power BI, VBA, Excel, Git
- **Skills:** Machine Learning, Deep Learning, LLM Systems (Agents, RAG, Evaluation/Tracing), Time Series Forecasting, Statistical Modeling, Reinforcement Learning, Feature Engineering, Data Engineering, A/B Testing, Causal Inference

## WORK EXPERIENCE

### OxeFit, Inc., Dallas, United States

Sep 2025 – Present

#### Data Scientist, Data Science and Artificial Intelligence Team

- Built and deployed a production LLM multi-agent system (LangGraph + FastAPI) to deliver personalized wellness coaching through natural-language conversations, enabling reusable AI workflows across core product experiences.
- Designed a hybrid memory architecture (episodic + semantic) with MongoDB Atlas Vector Search to support context-aware reasoning, improving response consistency via recency-aware retrieval, deduplication, and structured summarization.
- Contributed to the LLM evaluation and reliability workflow using LangSmith tracing, log-based analysis, and automated regression tests, helping speed up iteration while reducing behavior regressions during development.

### Dassault Systèmes, Den Bosch, The Netherlands

Apr 2023 - Sep 2023

#### Data Scientist Intern, Research and Development Department

- Led time series demand forecasting initiative with ML on 80k+ weekly shipments for postal client, improving ML model forecasting accuracy by 15% over legacy models and enabling ML feature adoption in the Demand Planner software.
- Uncovered calendar effects (e.g., holidays) as key drivers of shipment patterns, boosting forecast performance by 13% and directly informing new planning features in the company's Demand Planner product.
- Built reproducible end-to-end data pipelines with cloud version control for preprocessing, model training, and evaluation, and collaborated with cross-functional teams throughout the research to ensure long-term scalability.

### Xiaomi Technology, Amsterdam, The Netherlands

Oct 2021 - Apr 2022

#### Data Analyst Intern, Retail Department

- Cleaned and analyzed West EU sales data using Excel and SQL, and maintained daily and weekly reports for managers, helping improve product targeting strategies and boosting regional sales by 21%.
- Built interactive dashboards in Power BI and delivered weekly performance sales insights that improved salesforce allocation, driving 12% growth with strong ROI (~3×) in smart device retail.

## PROJECT EXPERIENCE

### Predicting Heart Disease with ML methods | Python, scikit-learn, imbalanced-learn, TensorFlow, pandas, NumPy, Matplotlib

- Led a study on 360,000+ recent US health survey records comparing 10+ ML algorithms for early heart disease detection, building robust EDA and feature engineering pipelines, identified RF the best ML model and boosted recall by 141.75%.
- Collaborated with a multi-disciplinary team to implement SMOTE-based class balancing and feature selection techniques, improving recall by an additional 37.71% and enabling cost-effective early detection for broader public access.
- Delivered actionable insights by translating model outputs into clear risk profiles—highlighting key factors like age, race, and sleep—for non-technical stakeholders, supporting data-driven preventive care strategies.

### ML-Based Crypto Fraud Detection | Python, scikit-learn, imbalanced-learn, Optuna, scikit-multiflow, pandas, NumPy, PySpark

- Designed a rolling-window validation and class balancing pipeline to capture evolving fraud patterns across 200K+ Bitcoin transactions, improving model stability and F1 by 8%, providing a consistent time-sensitive AML solution.
- Improved detection of coordinated crypto fraud by 5% in F1 score by comparing aggregated vs. local transaction features within a hybrid ML model, showing that aggregation better captures cross-transaction patterns missed by local features.

## OTHER ACHIEVEMENTS

- Chairman, Photography Committee, University of Amsterdam, 2020-2021

- Founder and National Leader, Xiaomi Global Campus Ambassadors Team, Netherlands, Xiaomi Technology, 2021