Jiachen (Jason) Zhong

Dallas, TX | (206) 356-4422 | mrjiachenzhong@gmail.com | LinkedIn: jiachen-zhong | GitHub: JiachenJasonZhong

EDUCATION

University of Washington, Seattle, WA
M.S., Computational Finance and Risk Management, Sep 2023 – Dec 2024 | GPA: 3.55/4

University of Amsterdam, Amsterdam, The Netherlands
M.S., Data Science and Business Analytics, Sep 2022 – Aug 2023 | GPA: 3.7/4
B.S., Econometrics and Data Science, Sep 2019 – Jul 2023 | GPA: 3.5/4; 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