

Tiffany Rosalyn Wong

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EXPERIENCE

AI Research Intern

06/2025 - 08/2025

(TenX Future Technology Limited — AI Quant Startup)

Shenzhen/Shanghai

- Performed research and prototyping on retrieval-augmented pipelines and agent frameworks for trading research: LangChain integrations, embeddings using BGE-3, and memory systems (Mem0).
- Designed and evaluated embedding-based similarity search for alternative data and factor documents; measured retrieval quality and downstream model impact using precision/recall and embedding cosine analysis.
- Explored and prototyped autonomous agent workflows with smolagent (agent orchestration) to automate data collection, feature extraction, and lightweight backtests; documented reproducible notebooks and APIs for team adoption.
- Collaborated with quant researchers to integrate ML features into factor evaluation pipelines and supported model training experiments (data preprocessing, feature engineering, hyperparameter tuning).

Project Lead and Front End Developer

09/2024 - Present

Innovation for Impact

Ann Arbor, MI

- Lead development of fintech platform InnoFunds, implementing automated financial tracking features and user dashboard using React Native targeting 500+ beta users for initial release.
- Architected responsive UI/UX and optimized cross-platform performance using React.js and Node.js.
- Managed a 5-person development team with Agile sprints and GitHub Actions CI; defined KPIs and product milestones for Q2 2025 launch.

Data Analyst Intern

06/2023 - 08/2024

CPU Corporation

Guangzhou, China

- Automated customer data processing with Python (pandas, NumPy) for 50,000+ records monthly, reducing reporting time by 75%.
- Implemented personalized engagement analysis from 10,000+ feedback points, increasing retention by 30% and improving satisfaction by 45%.
- Built executive dashboards (PowerBI + Python) consolidating 15+ data sources to provide near real-time KPIs.

PROJECTS

Time series forecasting models on macroeconomics | *Python*

- Engineered data pipeline processing 50+ economic indicators from FRED; implemented ARIMA and SARIMA models to forecast unemployment with confidence intervals.
- Built multivariate regression frameworks analyzing relationships between GDP, interest rates and unemployment; improved predictive performance via L1 regularization and feature selection.
- Optimized model performance and reduced forecast error by applying cross-validation and regularization techniques.

SKILLS

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

ML & AI: LangChain, embeddings (BGE-3), PyTorch, TensorFlow model evaluation, hyperparameter tuning, feature engineering, time series forecasting

Agent & Memory Tech: Mem0, smolagent, retrieval-augmented pipelines, RAG

Tools: Git, CI/CD, experiment tracking, PowerBI

Others: Data Analysis, Statistical Modeling, Financial Modeling, Leadership

Languages: Native proficiency in English, Mandarin and Cantonese

EDUCATION

University of Michigan, Ann Arbor

Ann Arbor, MI

Bachelor of Science in Data Science & Economics

Present - 5/2027

- Coursework: Programming & Data Structures, Introduction to Data Science, Python Programming Sciences
- Academic University Honors
- Selected as a WISE RP Scholar, a selective STEM program