Tracy (Min) Wu

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EDUCATION

University of Michigan, Ann Arbor   **Ann Arbor, MI**
M.S. in Applied Statistics   Expected May 2026
- GPA: 3.80 / 4.0
- Coursework: Bayesian Statistics, Natural Language Processing, Computer Vision, Information Retrieval, Machine Learning

Shanghai University of International Business and Economics   **Shanghai, CN**
B.S. in Financial Engineering   Sep. 2020 – Jul. 2024
- GPA: 3.65 / 4.0; Honors: Outstanding Undergraduate Thesis Award, First-class Scholarship
- Coursework: Time Series Analysis, Stochastic Process, Financial Derivatives, Database Management, Accounting

PROFESSIONAL EXPERIENCE

Skyworks Solutions, Inc.   **Woburn, MA**
Machine Learning Engineer Intern   May 2025 – Aug. 2025
- Fine-tuned a Hugging Face large language model (LLM) for text-to-SQL translation and execution across multiple company databases; tracked experiments with MLflow and deployed the model within Databricks
- Developed a FastAPI backend and React frontend for a web application facilitating text-to-SQL translation, integrating multiple databases to support company-wide text-to-SQL queries
- Designed data cleaning pipelines and automated ETL workflows using Python and Apache Airflow; migrated databases to Databricks Unity Catalog and re-architected ETL processes for improved scalability and governance

Henkel AG& Co. KGaA   **Kalamazoo, MI**
Data Scientist Intern   Apr. 2024 – Aug. 2024
- Built a scalable recommendation system using word embedding and fuzzy string-matching to analyze millons of sales records, returning top-matching accounts and improve the accuracy of target account classification
- Created sales analytics dahsboards using Power BI, facilitated tracking of business development activities across East Europe and Middle East regions

Guandata Co., Ltd. (Estee Lauder In-house Vendor)   **Shanghai, CN**
Data Engineer Intern   Jul. 2023 – Jan. 2024
- Developed SQL-based ETL pipelines to compare financial estimations with supply chain business plans, enabling real-time inventory alerts
- Built interactive inventory forecasting dashboards to streamline the planning process, incorporating automated email alerts for tracking forecasting value inconsistencies

RESEARCH EXPERIENCE

End-to-End Product Portfolio Q&A Chatbot Development with AWS   Sep. 2025 – Dec. 2025
- Leverage OCR models to parse PDF files and store information chunks into vectors in FAISS for fast and scalable search
- Fine-tuned a RAG-powered LLM chatbot to support product queries over technical manuals and deliver chemical product recommendations
- Deployed the LLM service on AWS EC2 for scalable and low-latency model serving in production
- Implemented a FastAPI-based backend and integrated a web frontend UI, creating a fully automated end-to-end pipeline from document upload to real-time conversational responses

Text Summerization Model Development with Hugging Face, Fast API, Docker, AWS   Dec. 2024 – Mar. 2025
- Developed seq2seq summarization model from scratch and fine-tuned T5 hugging face model for more accurate summaries
- Built a FastAPI app to handle RESTful requests and responses for original text input and generated summary output
- Deployed the fine-tuned model to production using AWS Lambda, enabling scalable and on-demand summary generation

SKILLS AND INTERESTS

Technical: Python (PyTorch, Hugging Face Transformers, scikit-learn, Numpy, Pandas, Flask, FastAPI), C++ , Cloud Platforms (Databricks, Azure, AWS), Frontend (React, JavaScript, HTML, CSS), Docker, SQL, Power BI, Excel
Languages: Mandarin (Native), English (Fluent), French (Basic)
Interests: Bridge, long-distance running (full marathon), badminton