Jane Luo

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EDUCATION

University of Michigan, Ann Arbor, MI — Aug 2023 - Dec 2024
Master of Science in Computer Science and Engineering — *3.93 / 4.0 GPA*
- Coursework: Machine Learning, Computer Vision, Natural Language Processing, Artificial Intelligence, Compilers

The University of Texas at Dallas, Richardson, TX — Aug 2020 - May 2023
Bachelor of Science in Computer Science, Minor in Business Administration — *3.96 / 4.0 GPA*
- Honors: Collegium V, Magna Cum Laude, Dean's List, National Merit Full-Ride Scholarship, Grace Hopper Scholarship
- Coursework: Data Structures & Algorithms, Operating Systems, Databases, Linear Algebra, Probability & Statistics

EXPERIENCE

University of Michigan — Aug - Dec 2024
Graduate Student Instructor
- Debugged and resolved 400+ conceptual and project-based queries from students in weekly office hours
- Led weekly lab sessions for 30 students, reinforcing key programming concepts and data structures through hands-on exercises in C++

Goldman Sachs — Jun - Aug 2024
Software Engineering Intern
- Constructed full-stack Streamlit dashboard enabling real-time site reliability monitoring of 4 critical data pipelines
- Leveraged Snowflake for efficient data ingestion and failure detection of 1,000+ vendor datasets
- Enhanced visibility and healthiness of data informing 10M+ positions and dollars in daily trading revenue, reducing problem detection and resolution time from days to minutes

Capital One — Jun - Aug 2023
Software Engineering Intern
- Built Slack chatbot in Python and mapped 10 common file errors into clear messages for customer-facing agents
- Configured AWS Lambda functions that performed data quality checks for file streams and triggered Slackbot through AWS SNS, handling 600+ uploaded files monthly
- Reduced weekly time spent by parent team on troubleshooting file errors for debt settlement teams from 5 hours to under 30 minutes

Capital One — Jun - Aug 2022
Software Engineering Intern
- Developed 8 API endpoints in Python and streamlined controls automation platform for risk associates
- Designed and implemented wireframes and data models for the web application's UI and core functionality
- Synchronized data between back-end database and front-end interface with AngularJS, SQLAlchemy, and Docker

The University of Texas at Dallas — Feb - May 2022
Teaching Assistant
- Facilitated understanding of C++ and programming fundamentals for 70 students by leading weekly lecture activities, designing learning resources, and offering targeted support in office hours
- Increased A grades by 15% and decreased failing grades by 9% in course section

SKILLS

Programming Languages: Python, C++, Java, SQL, JavaScript, TypeScript
Frameworks & Libraries: Pandas, Streamlit, AngularJS, ReactJS, Tailwind CSS, MySQL, PostgreSQL
Tools: Git (GitHub, GitLab), AWS (Lambda, S3, SNS), Snowflake, Docker, Jenkins, Jira

PROJECTS

Multi-Scale Integrated Sensing & Simulation | *Python, NodeRed, Docker, Grafana, InfluxDB*
- Leveraged publicly available datasets for visualizing and analyzing air quality sensors and population data
- Queried over 16M data points encompassing 20 geographical hierarchies from the US Census
- Extended ingestion pipeline by configuring NodeRed workflows, acquiring OpenAQ API data, and integrating real-time data into InfluxDB