

Tammy Tian

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Strategic, result-driven Data Engineer with expertise in optimizing data pipelines and infrastructure that power critical business insights and machine learning. Experienced in fostering collaboration across teams in Product, Engineering and Data Science. Currently looking to develop data solutions and teams. 😊❤️

Skills

Python | Spark | Java | Scala | SQL | Redshift | AWS S3 | AWS Lambda | Stitch | Airflow | Anyscale | Databricks | DBT | Jira | Looker | Terraform | Kubernetes | Jupyter | Bash | GRPC | Kafka | React | JavaScript | Git | Github Actions | Helm | Datadog | Sentry | Unit Testing | OOP | Agile | Microservices | Distributed Systems | Full-Stack | DevOps & Infrastructure Management | Data Visualization & Analytics | Machine Learning

Work Experience

Data Engineer [Reverb](#) | *Chicago, IL* Oct 2022 – Feb 2024

- Generated +\$2.8M in revenue by spearheading a recommendations feature across product, analytics and engineering teams
- Decreased ML experiment analysis query time by 83.3% through strategic sort key selection.
- Eliminated \$50K vendor dependency by migrating a third-party ML model to the new in-house ML platform.
- Minimized DBT CI painful turnaround time by 95% by implementing a custom-made parallel CI execution on GitHub Actions.
- Ascertained cloud resources, roles and permissions for AWS resources with the infrastructure team.
- Created a template to standardize how we evaluate, ingest, validate, and test third-party vendor data.

Data Engineer [Northwestern Mutual](#) | *Milwaukee, WI* May 2021 – Oct 2022

- Reduced processing time of dashboards by 83% (from 60 min to 10 min) and boosted query performance by utilizing Spark.
- Automated legacy MySQL database queries by leveraging Databricks batch jobs.
- Elevated company-wide reliability and security use by conducting integration testing on new data ingestion APIs.
- Educated junior engineers and promoted standardized coding practices within the team through code review sessions.

Associate Software Engineer [Northwestern Mutual](#) | *Milwaukee, WI* Sep 2019 – May 2021

- Attained a 94% reduction (from 12 hours to 40 minutes) by modernizing the tech stack for a financial analytics dashboard.
- Processed Mainframe data efficiently by developing streamlined processes with AWS Lambda functions written in Node.js.
- Improved data reliability and automated 50 validation tests during ingestion with a Kafka queue to verify data integrity.
- Implemented and tested using Scala within our microservices architecture to enhance performance and scalability.
- Mitigated application risks by analyzing and crafting risk remediation plans for 12 high-risk applications.

Full Stack Developer [Ken Cook Co.](#) | *Milwaukee, WI* Aug 2018 – Sept 2019

- Successfully proposed and implemented LogRocket, a solution to improve developer debugging experience on our front end.
- Optimized e-commerce platform by engineering API calls for dynamic calculations of tax, shipping, and credit card fees.
- Architected microservices and standardized product data between legacy and modern databases, improving data management.

Projects

- [Small Neighborhood](#) | *Applied Technologies: AWS SNS, DynamoDB, Node.js, React.js*
A directory and online ordering service for small businesses in Milwaukee. A platform to enable businesses to take online orders with no heavy fees. This was built with a group of friends in Milwaukee during the pandemic to help parents' businesses.
- [Policybot](#) | *Applied Technologies: AWS SNS, DynamoDB, Node.js, React.js*
Policybot was a passion project that developed out of an interest in Chinese politics. It scrapes Chinese government websites for newly published policy documents. Simple machine learning language models analyzed how new policies impact industries.

Interests

- Mental Health and Wellness ERG Lead at Reverb
Organized a highly impactful speaker event on mental health, drawing over 200 attendees from the Chicago area. Ran monthly ERG community discussion sessions to help employees and managers navigate mental health conversations.
- Team Turtle Wildrift Esports Manager
Organized scrimmages for the team to practice at a regular cadence to try out new strategies and champions. Led the team to their first tournament victory in the Demon Cup League based in Columbia.

Education

University of California, Berkeley 2020 – 2021

Non Degree, *Relevant Coursework: Data Engineering, Statistics for Data Science, Python for Data Science*

University of Wisconsin, Madison

Bachelor's of Science, *Journalism and Mass Communication*

2012 – 2016