

# Suzy(Shuzhu) Chen

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## EDUCATION

**Master of Science in Engineering, Data Science Specialization** | San Jose State University | San Jose, CA | May 2025

- **Coursework:** Artificial Intelligence and Data Engineering, Database System Principles, Deep Learning, Advanced Data Mining

**Bachelor of Economics in Mathematical Economics** | Shanghai University of Finance and Economics | Shanghai, China | July 2020

- **Coursework:** Computer Programming, Data-Driven Business Problem Modeling, Econometrics, Microeconomics, Macroeconomics

## SKILLS

**Programming & Frameworks:** Python, Java, JavaScript, TypeScript, SQL, R, React, Tailwind CSS, Node.js, Vercel, Figma

**Cloud & DevOps:** AWS (ECS, EC2, ECR, Lambda, S3, DynamoDB), GCP(Big Query, Cloud SQL), Docker, Kubernetes, Git, CI/CD

**Data Science & AI/ML:** PyTorch, TensorFlow, Scikit-learn, Numpy, Pandas, Transformer, LLAMA3, Hugging Face, Langchain, Langgraph, Agentic AI, Pinecone

**Big Data & Databases:** MySQL, PostgreSQL, MongoDB, Cassandra, Neo4j, BaseX, Apache Spark, Kafka, Hadoop (MapReduce, YARN), ETL

## EXPERIENCE

**AI/ML Data Scientist** | Kismet.xyz | San Jose, CA | Jan 2025 – Present

- Designed and developed scalable distributed data processing pipelines using AWS cloud infrastructure (Glue, Lambda, S3, DynamoDB), enabling near real-time analytics and self-service BI solutions for business stakeholders.
- Built ETL processes and streaming data ingestion systems that optimize data flow into analytical dashboards and ML workflows, supporting data-driven decision making across multiple business functions.
- Developed end-to-end Agentic AI solutions with tool-calling capabilities (RAG, Email, Discord integrations) and full-stack applications including database schema design, REST API endpoints, and frontend/backend deployment.
- Gathered requirements from business stakeholders, developed POCs and prototypes, and collaborated with cross-functional teams.
- Established CI/CD pipelines using GitHub Actions, designed UI/UX prototypes in Figma, created production monitoring dashboards, and optimized cloud costs while maintaining operational excellence and on-call support capabilities.

**Financial Data Analyst** | Bank of China, Shanghai Branch | Shanghai, China | Aug 2020 – Jun 2021

- Developed and deployed 10+ interactive data visualization dashboards using Tableau, presenting key financial metrics and trends to senior management, which improved decision-making efficiency by 25% and enhanced reporting accuracy by 21%
- Performed in-depth analysis of over 50,000 financial data points from loan portfolios and trading systems to support credit risk management, utilizing SQL and Python to automate reporting workflows, reducing manual effort by 40% and improving process efficiency by 25%, leading to a 15% reduction in reporting errors

## PROJECTS

**FoodieBot: AI-Powered Food Review Chatbot (MERN, Llama3.1, Hugging Face, LangChain, AWS, MongoDB, Pinecone)**

- Optimized the RAG pipeline with Pinecone, LangChain, and LLaMA3.1, improving information retrieval accuracy and response efficiency.
- Engineered data processing workflows for large-scale Yelp datasets, including data cleaning, feature engineering, and indexing.
- Implemented Agentic AI capabilities with multi-tool queries, user email responses, and persistent memory management within MongoDB.
- Designed and deployed scalable cloud infrastructure with Lambda, ECR, ECS, and ALB to streamline model hosting and API performance.

**LLM-Powered Knowledge Retrieval and Question-Answering System (LangChain, Vector database)**

- Built a dynamic question-answering system using LangChain, integrating LLM Chains and prompt templates for context-aware responses.
- Connected the system to a vector-based knowledge base for enhanced information retrieval from structured and unstructured datasets.
- Optimized system performance by fine-tuning query workflows, achieving zero latency and better retrieval accuracy.

**Teaching Assistant Web Application for Interactive Text and Image Generation (Gradio, HuggingFace transformer)**

- Developed an AI-powered teaching assistant using Gradio, enabling real-time content generation and Q&A for educators.
- Integrated Hugging Face Transformers to support text summarization, lesson planning, and educational content generation.
- Designed intuitive UI/UX and customized user interface using Figma for interactive educational assistance.

**ChessSite: Online Chess Platform (TDQM, Java, Hadoop, HTML5/CSS3, MongoDB)**

- Implemented Hadoop-based distributed data processing with TDQM principles for game analytics, achieving 30% reduction in data inconsistencies and developing MongoDB data warehouse for subscription and gameplay data management.
- Built Java-based clustering algorithm for personalized content recommendations and created HTML5/CSS3 data visualization dashboards to enhance data-driven decision-making processes.

**Voice of Customer (VoC) Topic Modeling (Scikit-learn, BERT, LDA, ChatGPT API)**

- Deployed LDA/BERT-based topic modeling solution with Scikit-learn's feature extraction and clustering libraries, analyzing 50+ topics and driving 10% more product enhancements with the ChatGPT API
- Improved customer sentiment classification accuracy by over 10% and precision to above 90%, while reducing false positives by 10%