Yasmeen Javadi

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EDUCATION

New Jersey Institute of Technology, Ying Wu College of Computing — Newark, NJ
Bachelor of Science in Computer Science — December 2025

- Relevant Coursework: Introduction to Artificial Intelligence, Machine Learning, Introduction to Generative AI, Advanced Data Structure and Algorithm design

CERTIFICATES

AWS Certified Solutions Architect – Associate — July 2025

PROFESSIONAL EXPERIENCE

Next Gen AI Consulting — Remote
Artificial Intelligence & Data Engineering Analyst — December 2024 – July 2025

- Designed and analyzed end-to-end Amelia conversation flows, leveraging Amelia's NLU and Answers features, and integrated them with backend systems (Step Functions, Lambda, custom APIs) to power a RAG-based FAQ retrieval solution.
- Ingested Amelia conversation logs via its Data Export API into S3, built Redshift Serverless ETL pipelines, and crafted QuickSight dashboards to visualize session metrics (volume, intent accuracy, fallback rates), enabling data-driven tuning of NLU models and dialogue flows.
- Engineered a fully serverless, event-driven customer-engagement platform on AWS—using Amazon Connect for contact flows, Lex V2 and Bedrock agents for conversational intelligence, orchestrated by Step Functions and Lambda—to automate routine inquiries, boost first-contact accuracy, and elevate user experience.
- Architected a multi-agent collaboration POC for healthcare support on AWS, integrating Lex V2 bots and Bedrock agents with backend services via EventBridge and Step Functions to validate scalable, fault-tolerant conversational workflows.

New Jersey Institute of Technology — Newark, NJ
Undergraduate Translational Research Internship — June 2024 – August 2024

- Optimized Time-LLM**,** a transformer-based forecasting model introduced in *"Time-LLM: Time Series Forecasting by*
- *Reprogramming Large Language Models" (2023)*, by tuning hyperparameters and evaluating its predictive performance on weather and stock market datasets**.**
- Conducted extensive experimentation by adjusting model parameters (e.g., context window size, batch size, learning rate) and analyzing their impact on forecasting accuracy.
- Implemented and benchmarked performance using Python, PyTorch, TensorFlow, NumPy, and Pandas, leveraging HPC environments with multi-core CPUs and NVIDIA GPUs to enhance model efficiency.

TECHNICAL SUMMARY

- **Generative & Conversational AI Tools:** NLP, prompt engineering, NLU modeling, multi-agent orchestration
- **Cloud Infrastructure & Services:** Azure, GCP, AWS Lambda, Step Functions, EventBridge, Connect, Lex V2Bedrock, S3, Redshift Serverless, Docker, Elasticsearch, Cassandra
- **Programming languages:** C/C++, Python, SQL, Postgres, Typescript, JavaScript, Java, Next.js

PROJECTS

- **Stya – AI Fashion Stylist iOS App on App Store | https://stya.ai** — April 2025
  - Engineered and published an end-to-end iOS application, scaling to 100+ active users via LLM-driven workflows.
  - Built a computer-vision pipeline to classify clothing-item photos and assemble a virtual closet.
  - Developed an interactive AI chatbot for prompt-driven outfit advice.
  - Architected an LLM-based recommendation engine that factors in weather, location, and wardrobe data to suggest personalized looks.
  - Integrated a full analytics stack to capture user interactions and inform continuous feature improvements.
- **LawTimePro – AI-Powered Legal Write-Off Automation Tool** — May 2025
  - Automated screen-capture + Tesseract OCR pipeline to log daily billable activity into structured JSON.
  - FastAPI backend batching GPT-4 calls every 5 min to draft firm-compliant write-offs, slashing API usage by ~80 %.
  - React dashboard with real-time summaries, audit logs, and compliance checks for seamless review.
- **Rocket – AI Resume Analyzer & Generator Web App** — Feb 2025
  - Developed a React/Tailwind frontend and Firebase backend (Cloud Functions, Firestore, Auth) for uploading resumes and job descriptions.
  - Leveraged GPT-4 to analyze resumes and generate optimized, role-specific CVs with quantified achievements.