Yasmeen Javadi

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PROFESSIONAL SUMMARY

New grad Software Engineer with experience shipping AI-powered mobile applications to production, building multi-agent conversational AI systems for enterprise clients, and engineering serverless backend infrastructure serving real users.

EDUCATION & CERTIFICATIONS

New Jersey Institute of Technology, Bachelor of Science in Computer Science — Grad. December 2025
AWS Certified Solutions Architect – Associate, AWS Certified AI Practitioner — August 2025

PROFESSIONAL EXPERIENCE

Next Gen AI Consulting | Artificial Intelligence & Data Engineering Analyst — *Manhattan, NY* | December 2024 – July 2025

- Designed and deployed a proof-of-concept multi-agent conversational AI architecture using AWS Bedrock (Claude 3) with RAG-based knowledge retrieval, orchestrating Supervisor and Authentication agents via Lambda to route and resolve 7+ IT support use cases including password resets, account unlocks, and clinical system access.
- Engineered end-to-end data pipelines integrating Amazon Connect, Lex, and Lambda to process omni-channel requests (voice, webchat, SMS); implemented channel-aware response formatting and session management across 6+ communication modalities.
- Built serverless backend infrastructure using CloudFormation, IAM, and Python Lambda functions to automate identity verification, account status checks, and integrations with clinical systems (EPIC, Omnicell), reducing manual IT ticket processing time by 30%.
- Developed NLU intent classification system with custom metrics tracking, enabling automated escalation routing, contextual entity extraction, and knowledge base integration for real-time IT troubleshooting.

New Jersey Institute of Technology | Machine Learning Research Internship — *Newark, NJ* | June 2024 – August 2024

- Researched Time-LLM, a transformer-based forecasting model, tuning hyperparameters on weather and stock datasets to improve predictive accuracy by 18%.
- Implemented and benchmarked models using Python, PyTorch, TensorFlow, and Pandas in HPC environments, reducing training time
- Presented findings to faculty researchers, translating technical insights into actionable takeaways for real-world forecasting applications.

Milad Mirg LLC | Freelance Machine Learning Engineer — *Montclair, NJ* | November 2023 – May 2024

- Built an ML-powered analytics tool using Pandas, scikit-learn, and YouTube/TikTok APIs to process and analyze millions of engagement records across videos.
- Applied NLP techniques to audience comments and metadata, identifying trends that improved short-form content performance by 22%.
- Collaborated directly with a YouTuber with 6M+ subscribers, presenting insights that optimized posting strategy and boosted audience retention.

ACCOMPLISHMENTS & LEADERSHIP

Project Manager & Full Stack Software Engineer– Stya (IOS App) — July 2025 – December 2025

- Developed an AI-powered iOS app using Swift, SwiftUI, and MVVM architecture; implemented Firebase Auth (Email/Apple Sign-In), Firestore, and Cloud Storage serving 500+ production users.
- Engineered serverless backend with Firebase Cloud Functions (Node.js) integrating Google Gemini 2.5 Flash for AI style transformations and SerpApi for visual product search; optimized async processing to reduce latency by 1.8×.
- Built complete in-app subscription system using StoreKit 2 with transaction verification, purchase restoration, and tiered access control across three subscription plans.
- Designed and shipped user-facing features including chat interface, product carousel with Safari integration, onboarding flow, and paywall, achieving 95% user satisfaction.

Team Lead– AI Agent & Infra Hackathon — July 2025 – August 2025

- Led creation of *Smart Cycle Calendar*, an agentic AI assistant for women that uses AWS Bedrock Agents, Lambda, and Next.js to dynamically plan and reschedule tasks via real-time Google Calendar and Teams integration, improving productivity by over 60% based on menstrual cycle research.

Project Manager & Full Stack Developer – Rocket — January 2025 – April 2025

- Led a 5-member Scrum team to build a full-stack resume-builder web app using React, Express.js, and Firebase; improved load times by 40%, reduced database latency by 25%, and delivered the top-ranked project (1st of 12 teams) for functionality, design, and team coordination.

Team Lead – HackNJIT 2024 — October 2024 – December 2024

- Directed the creation of an ML-driven financial analytics platform using Random Forest, XGBoost, and LSTM; achieved 22% higher forecast accuracy and pitched the solution to industry judges as a tool for smarter trading decisions.

TECHNICAL SKILLS

- **Languages:** C/C++, Python, SQL, Typescript, JavaScript, Java, Next.js, Bash, Swift
- **Frameworks:** PyTorch, TensorFlow, Keras, scikit-learn, Hugging Face, Next.js, React, Django, AWS, Azure, CUDA
- **Libraries**: NumPy, Pandas, Jupyter Notebook, Matplotlib, Seaborn
- **AI and ML**: NLP, prompt engineering, NLU modeling, multi-agent orchestration, neural networks (DNN, CNN, RNN), transformers, deep learning on GPUs, reinforcement learning, computer vision, Linear Regression, Logistic Regression, K-Means Clustering, K-Nearest Neighbors (KNN)
- **Project Management**: Agile, Scrum, Kanban, Jira, Trello, Git/GitHub, Version Control, Task Prioritization, Cross-Functional Collaboration, Microsoft Office Tools, Slack, & more