Andrea A. Yanez Soto

andreayanez11@outlook.com | 732-520-0494 | LinkedIn: in/andreayanezsoto | GitHub: andreay99

EDUCATION

New Jersey Institute of Technology – B.S. in Computer Science (Transfer Student) **Newark, New Jersey**
Expected Graduation: Aug 2027

- Relevant Coursework: Python cs100, User Experience; Self-Directed Coding Projects

Middlesex County College – Associate of Computer Science **Edison, New Jersey**
Graduated Aug 2025

- Relevant Coursework: Data Structures, Database Systems

SKILLS

Languages: Python, JavaScript/TypeScript, Java, SQL, Node.js, C++ (basic)
Frameworks & Tools: Flask, FastAPI, Next.js, PyTorch, TensorFlow, HuggingFace, OpenCV, MongoDB, Git, GitHub Actions, Postman
Cloud & DevOps: Azure, AWS, CI/CD, Docker
CS Fundamentals: Data Structures, Algorithms, OOP, System Design, RESTful APIs, ML Pipelines, Embeddings, Cosine Similarity
AI/ML: Facial Recognition, NLP, Real-Time Processing, TTS (ElevenLabs), Agentic Systems
Spoken Languages: English, Spanish, Portuguese, Korean

PROJECTS

Recall - Assistive Memory with Facial Recognition (*Flask, MongoDB, OpenCV*)
November 2025

- **Winner:** Best Use of Grok (xAI) & Best Use of Arm (MLH)
- Implemented an **OpenCV**-based **face-detection** and matching pipeline with feature extraction and **MongoDB-backend** profile store; evaluated precision/recall and reduced false positives via threshold tuning and augmentation.
- Built Flask endpoints (/setup, /recognize) to stream **Raspberry Pi** camera frames to the recognition service, measured and optimized inference latency for edge deployment, and integrated ElevenLabs TTS for spoken prompts; authored full API docs and tests.

OffScript - AI-Powered Technical Interview Simulator *(Next.js, TypeScript, FastAPI)*
HackHarvard 2025 | October 2025

- Spearheaded a real-time AI interview simulator using Gemini AI, improving feedback latency.
- Built a dynamic frontend with Next.js and TypeScript, integrated a robust backend with FastAPI.
- Collaborated with three engineers to deliver a fully functional MVP in 36 hours.

SONA AI - Real-Time Emotion Detection from Voice (*Python, TensorFlow, Librosa)*
Jun 2025 – Present

- Engineered ETL pipelines for audio data, achieving a **30% inference efficiency gain**.
- Enhanced accuracy by exploring statistical patterns in vocal tone and integrating agentic systems.
- Deployed a real-time emotion detection pipeline for live applications.

Bikeshare Trip Analysis (*SQL*)
September 2025

- Designed a SQLite database to analyze trip metrics and identify high-volume users and peak hours.
- Implemented anomaly detection (>30 min trips), uncovering insights for operational scaling.
- Published results and code for reproducibility and team collaboration.

EXPERIENCE

NASA
NASA-Funded AI Solar Eruption Research Program (MIRO) – NJIT **Newark, New Jersey**
Accepted Researcher *November 2025 - Present*

- Selected to conduct AI-powered solar eruption research using NASA satellite data.
- Program led by Dr. Qin Li and supported by NASA MIRO at NJIT.
- Focused on applying machine learning to analyze solar flare activity and prediction models.

Apple **Edison, New Jersey**
Training Lead *July 2025 - Present*

- Led technical training program that improved launch sales..
- Delivered performance metrics to leadership, accelerating tool adoption.
- Provided mentorship and structured guidance to new technicians, fostering a supportive and productive work environment.

Apple **Edison, New Jersey**
Technical Specialist *August 2024 - Present*

- Troubleshot software and hardware issues across macOS, iPadOS, and iOS, raising satisfaction by 15%.
- Collaborated with engineers to resolve escalated technical issues, demonstrating my ability to work in a team and solve complex problems effectively.
- Mentored peers in structured problem-solving, increasing team efficiency by 40%.