

# Melisa Sever

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## EXPERIENCE

### AI Engineer

#### Reality AI Labs

December 2024 – Present, San Francisco, California

- Owned and built production backend systems for Marvel AI Teacher Assistant using Python, FastAPI, LangChain, and RAG, serving 500+ teachers.
- Designed and maintained REST APIs powering grading, feedback, lesson planning, and conversational AI workflows.
- Optimized Google Cloud infrastructure, reducing API latency by 40% and improving scalability and reliability.

### Backend Engineer

#### Reality AI

December 2022 – November 2024, San Francisco, California

- Developed Gemini Quizify, an AI-powered quiz generation platform delivering personalized assessments for 200+ students.
- Built backend services in Python using LangChain and Vertex AI APIs, enabling quiz generation, instant feedback, and answer explanations.
- Improved system reliability and velocity by implementing automated evaluation pipelines and CI/CD on Google Cloud, achieving 99% uptime.

### Frontend Developer

#### Pixagor Data Center and Software Services Inc.

June 2022 – November 2022, Istanbul, Turkiye

- Built a doctor appointment web application that increased online bookings by 30%.
- Improved user satisfaction by 35% through responsive UI and optimized asynchronous API calls.
- Collaborated in Agile/Scrum teams to deliver client-facing healthcare software.

## PROJECT

### AI-Enhanced Threat Detection System

[github.com/melisavr/AI-Enhanced-Threat-Detection-System](https://github.com/melisavr/AI-Enhanced-Threat-Detection-System)

- Built a real-time backend ML system detecting 10+ attack types using hybrid rule-based and anomaly detection.
- Designed streaming ingestion, automated responses, and audit logging with 90% detection accuracy.
- Developed a live analytics dashboard tracking 500+ events/day.

### FraudGuard Pro– Real-Time Bank Fraud Detector

[github.com/melisavr/FraudGuard-Pro-Real-Time-Bank-Fraud-Detector](https://github.com/melisavr/FraudGuard-Pro-Real-Time-Bank-Fraud-Detector)

- Built a Python + SQLite backend system processing 50+ transactions/minute.
- Implemented alerting and load simulation to validate detection accuracy under real-world conditions.
- Created a Flask + Tailwind dashboard for continuous monitoring.

### Customer Support Ticketing System Simulator

[github.com/melisavr/Customer-Support-Ticketing-System-Simulator](https://github.com/melisavr/Customer-Support-Ticketing-System-Simulator)

- Built a Python + LangGraph backend system classifying and routing 500 simulated support tickets across billing, technical support, returns, and general inquiries.
- Implemented intent classification, smart routing, sentiment-based scoring, and escalation logic with 90%+ accuracy, automatically flagging high-priority or low-quality tickets.
- Designed offline state management to track full ticket lifecycles and built an interactive HTML dashboard visualizing 100% of ticket states, summaries, and resolution outcomes.

## EDUCATION

### Bachelor of Science in Computer Science

San Francisco State University • San Francisco, CA

## SKILLS

Languages: Python, Java, C++, JavaScript, TypeScript, SQL

AI/ML & NLP: LangChain, RAG, PyTorch, TensorFlow, Hugging Face, SpaCy, NLTK, OpenCV, OpenAI, Scikit-learn, Pandas, Numpy, Seaborn

Frameworks & Libraries: Django, FastAPI, Flask, React, Bootstrap, JQuery, Node.js, Streamlit, SQLAlchemy, Vue.js

Cloud & DevOps: Google Cloud Platform, Docker, Firebase, PostgreSQL, MongoDB, Git, GitHub, Postman, CI/CD