Angel Nivar

Aspiring Data Engineer | Cloud & Big Data Enthusiast

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GitHub | LinkedIn | Portfolio

Technical Skills

Cloud & Infrastructure: AWS (EC2, Lambda), Azure (VMs, Functions, Blob Storage), Docker, Kubernetes (basic)
Programming Languages: Python, Scala, JavaScript, SQL, Bash
Databases: PostgreSQL, Redis, MinIO Object Storage, MongoDB (basic)
Big Data: Apache Spark (RDDs, GraphX, MLlib), ETL Pipelines, Distributed Computing
Backend Frameworks: FastAPI, Flask, Node.js/Express, REST API Design
Machine Learning & Data Science: TensorFlow, Scikit-learn, Pandas, NumPy, Feature Engineering
DevOps & Tools: Git, Docker Compose, CI/CD (basic), Performance Monitoring

Technical Projects

- **Distributed Anime Recommendation System** (Python, Pandas, Scikit-learn, PostgreSQL, Redis, Flask)
  - Built a hybrid recommendation engine processing 50K+ user rating with collaborative + content-based filtering.
  - Optimized SQL queries with indexing/caching, reducing latency from 5s to <1s.
  - Deployed Flask API with Redis session management to serve personalized recommendations via REST endpoints.

- **Enterprise Graph Processing on Azure Cloud** (Scala, Apache Spark, Azure)
  - Engineered dual shortest-path algorithms achieving 42% performance improvement over GraphX default.
  - Processed 100K+ edge graphs in under 9s using optimized Spark configs on Azure D4s_v3 VMs.
  - Leveraged BSP-based distributed computing with Pregel API for scalable performance.

- **Bioacoustic Species Classification Platform** (Python, PostgreSQL, MinIO, FastAPI, TensorFlow, Docker)
  - Designed ML pipeline with PostgreSQL metadata + MinIO object storage for 10GB+ audio data.
  - Developed REST API serving real-time predictions with <2s latency using Redis caching + async processing.
  - Automated ETL pipelines: web scraping, audio preprocessing (Librosa), and feature extraction.

- **Real-Time Solar Analytics Platform** (Python, Azure Functions, React, PostgreSQL, Redis)
  - Built serverless API handling 1000+ requests/min with intelligent caching and Azure Blob Storage.
  - Integrated NASA POWER + OpenWeatherMap APIs with automated fallback + 10-min cache TTL.
  - Developed auto-scaling backend for city-level solar data monitoring across 50+ locations.

Work Experience

Customer Service Associate – Provino's Italian Restaurant, Snellville, GA (Jun 2020 – Present)

- Built strong communication, multitasking, and problem-solving skills while balancing academic coursework.
- Gained experience in client-facing service and teamwork in a fast-paced environment.

Education

Georgia State University – **Bachelor of Science, Data Science** (Expected Fall 2025)

- GPA: 3.6 | President's List | HOPE Scholarship Recipient
  - Relevant Coursework: Data Mining, Object-Oriented Programming, Data Visualization, Computer Organization, Data Structures & Algorithms, Machine Learning, Big Data Analysis, Full-Stack Development, Digital Image Processing