Jandrik Romano Lana
Quezon City, National Capital Region, Philippines
jandrikrlana@gmail.com | Mobile: 09970871520 | https://github.com/LinkAnJarad

TECHNICAL SKILLS

- **AI & Machine Learning:** Python, PyTorch, Hugging Face, Transformers, Scikit-learn, LangChain, RAG Systems, Ollama, llama.cpp, Vector Search (ChromaDB), Model Distillation & Fine-Tuning, Computer Vision, NLP
- **Frontend & Mobile:** Next.js, Flutter, JavaScript/TypeScript, HTML/CSS
- **Backend & Cloud Deployment:** FastAPI, Flask, Docker, GCP Cloud Run, RESTful APIs, Git, VastAI
- **Databases & Automation:** MySQL, PostgreSQL, MongoDB, ChromaDB, n8n Workflow Automation

EXPERIENCE

Remote Contractor — Cocoro Embody LLC | *Ehime, Japan (Remote) June 2026 - Present*

- Architected end-to-end automated data ingestion and weather notification pipelines using n8n to streamline external API triggers.
- Maintained reliable execution across scheduled workflow runs, managing payload validation and error handling for external service integrations.

Research Intern — International Research Center for Neurointelligence – The University of Tokyo | *Tokyo, Japan (Remote) Nov 2025 – Present*

- Fine-tuned and evaluated a Wav2Vec2 speech emotion transformer, beating previous state-of-the-art benchmark metrics by 22%.
- Implemented knowledge distillation on a facial emotion recognition model, achieving a 90% reduction in model size while preserving 98% evaluation accuracy.
- Engineered a cross-platform mobile client in Flutter interfacing with emotion recognition models for real-time interaction experiments.

KEY PROJECTS & ACHIEVEMENTS

- **Anime Recommendation Engine (RAG Pipeline) | *Next.js, FastAPI, LangChain, ChromaDB, Ollama (Qwen3)***
  - Built an end-to-end Retrieval-Augmented Generation (RAG) assistant querying the MyAnimeList dataset via natural language prompts.
  - Indexed document embeddings within ChromaDB vector store for semantic similarity search, integrating retrieval logic into a modular FastAPI microservice.
  - Connected a responsive Next.js web interface to local LLM inference engines (Ollama) to deliver low-latency recommendations.
- **AI Medication Identification System | *Flutter, FastAPI, GCP Cloud Run, PyTorch, Docker***
  - *Developed an end-to-end mobile computer vision application to identify local medications, fine-tuning ConvNeXtV2 via transfer learning to achieve 91% classification accuracy.*
  - *Containerized a FastAPI inference pipeline with Docker and deployed it onto GCP Cloud Run for concurrent, on-demand prediction handling.*
  - *Built the mobile interface using Flutter to capture camera feeds and interface reliably with cloud endpoints.*
- **OpenChess-Insights (Open Source Engine Explainer) | *Python, Flask, Stockfish Engine***
  - Designed and published an open-source chess analysis platform that grew to 70+ GitHub stars through community adoption.
  - Built a custom rule and logic engine converting raw Stockfish engine evaluation values into human-readable move explanations (e.g., tempo gains, tactical pins, forks).

PUBLICATIONS

- **First Author**, "Dimensional Speech Emotion Recognition for Japanese Speech: A Raw-Waveform Transformer Multi-Task Approach" — *Proceedings of the 14th International Conference on Affective Computing and Intelligent Interaction (ACII 2026).*

CERTIFICATIONS

- AWS Certified AI Practitioner (AIF-C01) — Amazon Web Services [2026]

EDUCATION

Bachelor of Science in Information Technology with Specialization in Software Engineering
Trinity University of Asia, Quezon City, NCR, Philippines