Ian Tai Ahn

Ogden, UT | (385) 208-8789 | iantaiahn@yahoo.com | linkedin.com/in/ian-tai-ahn-429366228 | github.com/IanTaiAhn

Data Engineer and Software Engineer with 3+ years building automated data pipelines, scalable cloud-native architectures, and ML systems with professional experience in high-compliance defense environments. M.S. in Data Science with hands-on experience in Python, SQL, end-to-end RAG pipelines, and production-grade DevOps. Active Secret clearance.

TECHNICAL SKILLS

Languages & Data: Python, SQL, PostgreSQL, R, JavaScript, TypeScript, Java, Shell, Snowflake, dbt
Data Engineering: pandas, NumPy, data pipelines, ETL/ELT, data cleaning, feature engineering
ML & AI: PyTorch, TensorFlow, scikit-learn, RAG pipelines, embeddings, vector databases (FAISS), LangChain, NLP
Cloud & Infra: AWS, Azure, Docker, Kubernetes (K8s), Helm, Istio, Ansible, Kyverno
MLOps & DevOps: CI/CD pipelines, GitHub Actions, Helm charts, Robot Framework, Flux
Frameworks & Tools: React, Django, Next.js, Flask, Spring, REST APIs, Git, Agile/Scrum, Tailwind, Microsoft Office

EXPERIENCE

Full Stack & Platform Engineer — DevOps | *Lockheed Martin | Hill Air Force Base, UT* | Jan 2025 – Present

- Designed and operated scalable data infrastructure supporting 30+ distributed microservices across multiple enclaves, ensuring reliable data flow for downstream mission-critical systems
- Built automated data validation and CI workflows achieving >80% system test coverage, reducing defect escape rate and improving data reliability for production deployments
- Automated policy enforcement across all data services using Helm, Kyverno, and Ansible, cutting manual deployment errors by ~40% and standardizing data pipeline configurations
- Led architecture decisions for a microservices-based mission system; served as Scrum Master and Technical Lead coordinating sprint planning and cross-team data engineering dependencies

Software Engineer — Systems Testing & Data Automation | *Pratt & Whitney | Hill AFB, UT* | Aug 2023 – Dec 2024

- Designed and implemented a Python data pipeline to automate ingestion, parsing, and transformation of structured CSV data reducing a 20–30 minute manual process to seconds and saving an estimated 10 hours/month, improving data reliability for downstream reporting and decision-making
- Developed automated system tests using Robot Framework, applying root cause analysis and data quality practices across regression cycles to improve defect detection and release reliability

PROJECTS

Prior Authorization Policy Compiler | Python, FastAPI, Groq LLM | github.com/IanTaiAhn/pauth_rc

- Built a two-step LLM pipeline that ingests Medicare LCD policy documents (PDF/TXT) and compiles them into structured prior authorization checklists with ICD-10 codes, requirement logic, exception pathways, and denial prevention guidance directly applicable to Medicare Advantage workflows
- Designed a schema-driven architecture using Pydantic to enforce checklist structure and a semantic validation layer that catches logic mismatches (e.g. all vs count_gte requirement types) before templates reach clinical staff
- Implemented a FastAPI backend with a two-endpoint REST API separating structural extraction from detail population, reducing LLM hallucination risk by locking schema in Step 1 before populating clinical specifics in Step 2
- Deployed against Medicare LCD L36007 (Lower Extremity Major Joint Replacement), surfacing coverage criteria, hard-stop contraindications, and submission reminders used by clinic billing teams to reduce PA denials

EDUCATION

M.S., Data Science | Graduate Certificate, Computational Data Science & Machine Learning | Weber State University | GPA 3.85 | 2025

B.S., Computer Science | Weber State University | GPA 3.93 | 2023