

Lan-Anh (Lanni) Dang-Vu

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Experience

IT Leadership Program Associate

Jul. 2025 – Present

Pacific Life

Newport Beach, CA

- **1st Rotation: Data Engineer**

- * Wrote and deployed production Python and SQL code to build ETL pipelines using Snowflake, Matillion, and Control-M to automate data ingestion, transformation, and scheduling across systems.
- * Modernized a data generation and delivery pipeline by re-architecting data workflows and automation, improving reliability and reducing manual processing time.
- * Wrote SQL-based data validation and test queries for ETL pipelines, systematically checking data quality and catching inconsistencies before they reached downstream reporting.
- * Debugged and resolved data integrity issues during the production migration of the Asset Cashflows application, ensuring deployment readiness.

- **2nd Rotation: Analytics Engineer**

- * Took technical ownership of a Snowflake-based document ingestion and AI search platform, leading architecture, development, and stakeholder collaboration to support evolving business use cases.
- * Designed and implemented a RAG pipeline using Snowflake Cortex, Python, and SQL— integrating Snowflake and AWS APIs (including credential/authentication setup and sending/retrieving agent responses) — to process unstructured content and enable scalable AI-powered search across enterprise knowledge bases.
- * Built automated evaluation and testing frameworks using AWS AgentEval and Snowflake Cortex Agent Evaluations to measure retrieval accuracy, source attribution quality, and response performance for enterprise AI applications.
- * Developed a CI/CD deployment pipeline in Azure DevOps to automate the release and promotion of Snowflake and application changes across development and testing environments.

Machine Learning Engineer - Team Lead (Capstone)

Jan. 2025 – Jun. 2025

Sound Ethics

Irvine, CA

- Led a team of 7 students on an industry-sponsored project researching and developing AI-generated music detection to protect artists from deepfake copyright infringement.
- Developed and trained audio-processing and machine learning pipelines using Python, PyTorch, Google Cloud Platform, librosa, ffmpeg, and mutagen.
- Improved RawNet2's performance by integrating a cosine similarity classifier and CLAD loss function, boosting accuracy to 88% on real music and 92% on generated audio, with up to 76% gains on augmented inputs.

AI/ML Undergraduate Researcher

Oct. 2024 – Jun. 2025

UCI's Donald Bren School of Information and Computer Sciences

Irvine, CA

- Designed and developed object-oriented Python pipelines for cross-dataset benchmarking and evaluation of human pose estimation models on Unix-based HPC systems.
- Published research findings on arXiv at <https://arxiv.org/abs/2505.10888v2>

Technical Skills

Languages: Python, SQL, C++, C, HTML/CSS

Tools & Platforms: Git, Azure DevOps, Snowflake, Snowflake Cortex, AWS, Docker, GCP, Matillion, Control-M, Terraform, Flyway, CI/CD, Postgres, SchemaChange

Libraries: PyTorch, TensorFlow, pandas, NumPy, Matplotlib

Education

University of California, Irvine

Irvine, CA

Bachelor of Science in Computer Science

Sep. 2021 – June 2025

Dean's Honor List Recipient — 6x

- **Specializations:** Artificial Intelligence; Architecture and Embedded Systems
- **Relevant Coursework:** Machine Learning/Data Mining, Information Retrieval, Computer Systems, Computer Networks, Design and Analysis of Algorithms, Embedded Systems, Data Management, IoT Software and Systems
- **Organizations:** Executive Chair for AI @ UCI; Women in Information and Computer Sciences (WICS)