

Lan-Anh (Lanni) Dang-Vu

703-839-5134 | ldangvu243@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#) | Irvine, CA

Experience

Machine Learning Engineer (Apprenticeship)

Jan. 2025 – Present

Sound Ethics

Irvine, CA

- Leading a team of 7 students on an industry-sponsored project with the CEO and Executive team of Sound Ethics, researching and developing AI-generated music detection to protect artists from deepfake copyright infringement.
- Developing machine learning models for Generative Music AI, Singing Voice AI, and Spoken Voice AI detection on Google Cloud Platform, while preprocessing audio using stem separation, noise removal, and feature extraction with librosa, ffmpeg, and mutagen.
- Following Agile Scrum methodologies, conducting iterative sprints and stand-ups to ensure efficient workflow and collaboration.

AI/ML Undergraduate Researcher

Oct. 2024 – Present

UCI's Donald Bren School of Information and Computer Sciences

Irvine, CA

- Creating APIs for handling spatial modeling data from over 34 pre-trained entries and integrating 3 different datasets into training pipelines to enhance model compatibility.
- Developing and implementing cross-dataset benchmarking models on Unix-based HPC systems to ensure accurate pose predictions across datasets with varying structures and labeling.

Data Analyst Intern

July 2023 – Sep. 2023

Objectstream, Inc.

Remote

- Utilized SQL in a Postgres environment to construct efficient queries for data profiling, transformation, and analysis. Effectively filtered and organized data sets to derive insights and meet project requirements.
- Conducted comprehensive data profiling on over 1,000,000 data points to identify data quality issues and patterns, leading to a significant reduction in data errors.
- Created an efficient technique using SQL to reduce download speeds of large data sets from hours to under 5 minutes.
- Collaborated cross-functionally to bridge communication gaps and ensure cohesive work production between teams.

Projects

Search Engine | *Python, Streamlit, GitHub*

May 2024

- Developed a search engine with a GUI from scratch that is capable of handling tens of thousands of documents/Web pages under harsh operational constraints, with a query response time under 300ms.
- Implemented Simhashing, inverted indexing, Page Rank, and cosine similarity to ensure the best search results.

Song Recommender | *Python, Spotify API*

December 2022

- Developed a music recommendation program with Python utilizing the Spotify API library.
- Enabled users to discover songs similar to their preferences based on genre, danceability, etc.
- Integrated a user-friendly interface for browsing and previewing recommendations.

Technical Skills

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

Developer Tools: Git, Google Cloud Platform, Postgres, Jupyter Notebook, Unix, Figma

Libraries: PyTorch, TensorFlow, pandas, NumPy, Matplotlib, Arduino, Raspberry Pi, Conda

Education

University of California, Irvine

Irvine, CA

Bachelor of Science in Computer Science

Sep. 2021 – June 2025

Dean's Honor List Recipient: Fall 2023, Winter 2024, Spring 2024, Fall 2024, Winter 2025

- **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)