Lance Nguyen

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Experience

Radical AI, *Artificial Intelligence Engineer Intern* *April 2024 – Present*
- Lead a team of fellow engineers to contribute to Radical AI's open source projects, focusing on implementing agentic workflows to the system
- Engineer full-stack web applications using FastAPI, Node.js, React, Langchain, and Vertex AI to generate quizzes and flashcards from outside sources, offering instant study material and enhancing digital learning for students and educators
- Collaborate with colleagues to solve issues on GitHub and personal projects, eliminating blockers
- Conduct thorough testing and performance analysis to ensure clarity and relevance in outputs

Cyber Partner AI, *Artificial Intelligence Engineer Intern* *March 2024 – Present*
- Design and implement an advanced RAG system connected to a database for personalized conversations, maintaining appropriate precision at k and cosine similarity values during retrieval
- Deploy and integrate a trained model, optimizing performance and scalability, which resulted in a 70% increase in user satisfaction based on post-deployment surveys and user feedback
- Fine-tune and evaluate a large language model for extracting specific information from user messages, enhancing companionship experiences when interacting with the system
- Generate and annotate synthetic datasets using GPT, preprocessing data for model training

Mentorship *January 2023 – Present*
- Engage in private study sessions with a senior AI researcher from Nvidia, discussing advanced AI application design, techniques, and frameworks

Projects

Chatbot Development
- Developed 4 Streamlit applications that host various chatbot solutions using a LLM:
  - RAG Optimization: Improved model responses connected to external data
  - Qdoc (Content-based): Streamlined information retrieval from web articles
  - SpotOn (Review Analysis): Extracted meaningful insights from Google Maps reviews
  - CooPA (Search-Driven): Integrated with Google Search API to enhance user interactions

AI Chrome Extensions
- Created extensions to define and transform user-highlighted text on web pages

Leadership

Self-employed, *Professional Tennis Coach* *April 2014 – Present*
- Provide private lessons to 12 students, improving ratings up to Blue Chip, 13.5 UTR, and 5.5 NTRP. Previously led training programs for 600+ players at an academy

Skills

Languages: Python, JavaScript, HTML, CSS
Frameworks: PyTorch, Hugging Face, LangChain, LlamaIndex, Django, Flask, FastAPI, React
ML Techniques: Agentic workflow, Retrieval-augmented generation, Fine-tuning, Prompt engineering
Other: LLMs, Node.js, Vite, OOP, Testing, Debugging, Git, Streamlit

Education

San Jose State University, *Bachelor of Science in Kinesiology* *August 2019*

Tech Courses: Andrej Karpathy: Neural Networks; DeepLearning.AI: Prompt Engineering, LangChain Chat with Your Data, Building and Evaluating Advanced RAG Applications; Harvard CS50P: Intro to Programming with Python