

NICK TRAN

Anaheim, CA

[Email](#) ◊ [Linkedin](#) ◊ [Github](#)

EDUCATION

- California State University, Fullerton** **Jan 2023 - May 2026 (Expected)**
Master of Science in Computer Science, Major: AI & Machine Learning, GPA: 3.5/4.0 *Fullerton, CA*
Relevant Courses: Operating Systems, Algorithm Engineering, Software Engineering
- California Institute of Technology** **Jun 2023 - Jan 2024**
Caltech AI & Machine Learning Bootcamp *Pasadena, CA*
- California State University, Fullerton** **Aug 2019 - Dec 2021**
Bachelor of Arts in International Business, Major: Global Trade, GPA: 3.5/4.0 *Fullerton, CA*
- Cypress College** **Aug 2015 - May 2019**
AS-T Business Administration & Mathematics *Cypress, CA*

WORK EXPERIENCE

- USC Institute for Creative Technologies** **Sep 2023 - Jan 2024**
Student Researcher Intern *Los Angeles, CA*
- Analyzed and summarized PDF research papers using Large Language Models (LLMs) in the Learning Sciences Lab and developed a system for converting documents into structured JSON with AWS integration.
 - Led research on AI learning technologies such as dialog-based tutors and personalized recommenders, and enhanced full-stack/mobile learning application prototypes leveraging GPT and LangChain.
 - Dissected complex research materials utilizing ML algorithms and Natural Language Processing (NLP) techniques such as text extraction and sentiment analysis to inform project development.
- C. Pacific** **Mar 2022 - Nov 2022**
Supply Chain Analyst *Norwalk, CA*
- Optimized inventory rotation for a 15% growth in turnover, leveraging pivot tables, VLOOKUP functions, and macros in Excel for dynamic data analysis and task automation.
 - Imported overseas containers seamlessly utilizing the Sage 100 system for data management and documentation.
 - Managed the logistics for imported containers, including coordinating inland transportation from ports to final delivery destinations, and collaborated with the customs broker to process FDA/US Customs clearance.
 - Reduced order fulfillment times by 20% and decreased manual entry errors by upgrading the CRM system to streamline sales order entry and customer order processing.
 - Provided critical support in decision-making processes as Executive Assistant to the Purchasing Manager.
- Intelligence4start** **Aug 2020 - Aug 2021**
Data Analyst Intern *Melbourne, Australia*
- Drove a 10% growth in SEO search results through targeted keyword optimization and data analysis using Magento, Excel, and SQL.
 - Managed monthly dashboard reports for 10+ clients, tracking keywords for errors and troubleshooting the database environment, enhancing report accuracy and generation time.
 - Optimized client websites for first-page Google search ranking, leveraging Magento to improve site visibility.
- Cypress College** **Aug 2016 - Jan 2018**
Supplemental Instructor, Calculus II (Part-Time) *Cypress, CA*
- Guided 80+ students in developing transferable learning and study skills through targeted reviews.

- Planned and delivered full Supplemental Instruction (SI) sessions 1-2 times per week, including conducting exam reviews, and met with supervisors and faculty routinely to ensure alignment with course objectives.
- Enabled students to actively explore calculus concepts in depth utilizing the “Flipped Classroom” approach.

PROJECTS

Research Paper Extract System

Sep 2023 - Dec 2023

- Developed a cloud-based system for research paper content extraction and analysis using AWS Lambda, LangChain, API Gateway, and Python, featuring PDF processing and JSON data structuring.
- Implemented advanced NLP techniques, including semantic analysis and keyword extraction, to accurately parse and summarize the content of research papers, enhancing accessibility.

AI-Driven E-Learning Video Analysis

Jun 2023 - Dec 2023

- Led an AI project to enhance online learning quality through YouTube e-learning video analysis, employing video segmentation, NLP, and XGBoost in Python, deployed on Amazon SageMaker.
- Ensured precise selection of keyframes to analyze instructor presence, engagement, and the use of educational aids like blackboards/slides, applying Uniform Time Sampling and clustering techniques for video segmentation.

URL Phishing Detection

Jun 2023 - Dec 2023

- Managed a cybersecurity project to classify URLs using data analysis and machine learning, incorporating histograms, heatmaps, and K-Fold cross-validation for enhanced detection accuracy.
- Developed and fine-tuned binary classification models, utilizing metrics such as precision, recall, and F1 scores to measure and validate performance.
- Prevented malware installations and protected sensitive user information by analyzing 11,000 URL samples, each characterized by 32 distinct features to classify URLs as phishing, suspicious, or legitimate.

SKILLS

Languages	C++, SQL, Python, HTML/CSS, JavaScript
Frameworks/Libraries	Spring, Gatsby, Flask, Keras, LangChain, TensorFlow, scikit-learn, pandas, NumPy
ERP	Sage100
Tools/Technologies	NLTK, AWS (Lambda, Step Functions, S3, API Gateway), Linux (Ubuntu), Sage 100, Docker, Terraform, Excel, Magento, Amazon SageMaker, GPT
Certifications	IBM Data Analyst , Google Project Management , Lyft Back-End , Cognizant AI
Methodologies	Agile, Scrum, Serverless Architecture, NLP, Data Analysis
Others	Vietnamese (Native), English (Proficiency), Japanese (Elementary)

INVOLVEMENT

Kids Around the World

Mar 2023 - Present

- Participated in staff activities, including packing food for 100+ children in African countries, and orchestrated mini-contests among volunteer teams to identify the fastest food packing methods.

CSUF Data Science & AI

Mar 2023 - Present

- Engaged in workshops, sharing and gaining insights on AI advancements, including topics on Intro to Embedding, Audio in AI, Prompts Crafting & Injection.

CSUF ACM

Mar 2023 - Present

- Contributed to CS workshops, exchanging knowledge and networking on topics such as Recursion & Graphs, Finance in Tech, and Systems & Data-Oriented Design.

C.Pacific Book Club

Mar 2023 - Nov 2023

- Participated in selecting engaging literature, coordinated event logistics, and fostered a sense of community via shared reading experiences.