

Joseph Leo

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Education

University of Southern California, Viterbi School of Engineering & Marshall School of Business

Los Angeles, CA

Bachelor of Science in Computer Science/Business Administration – STEM Designated

August 2023 – May 2027

Minors in Artificial Intelligence (AI) Applications and Business Finance

Relevant Coursework: Software Engineering, Algorithms & Theory of Computing, Data Structures and Object-oriented Design, Applied Python, Statistics & Data Science for Business, Discrete Methods in Computer Science, Linear Algebra, Calculus II for Engineers, Business Finance, Advanced Operations Management & Analytics

Honors/Awards: Dean's List (5×), J&J National Corporate Case Competition (Silver – Team USC), GSSC Pitch Competition Semifinalist, Avenues Consulting Group Hackathon+ (1st Place)

The Wharton School

Leadership in the Business World (Full Merit-based Scholarship Recipient)

Experience

Swing Phi Gen. AI Engineer Intern

May 2025 – August 2025

- Engineered end-to-end news sentiment analysis pipeline integrating BERT categorization, FinBERT sentiment analysis, and Claude LLM synthesis to process 100+ daily financial articles, delivering real-time market insights for retail traders
- Developed multi-factor article scoring system using NLP techniques (TF-IDF, DBSCAN clustering, entity extraction) to identify and validate high-quality sources from 10+ news outlets, achieving 85% accuracy in event correlation
- Built and deployed Streamlit-based interface combining ML predictions with volume-based validation, reducing analysis time from hours to minutes while providing actionable buy/sell signals across 50+ tracked securities

USC Mann School of Pharmacy DHBB Digital Systems Student Worker Manager

February 2025 – Present

- Leading a team of 6 student workers providing technical support, systems optimization, and applying experimental technologies, reducing system downtime and improving user satisfaction scores among 70+ faculty
- Developing and implementing a unified attendance system leveraging geo-tracking APIs to automate check-ins for 300+ participants each month, eliminating manual reconciliation and boosting data accuracy for program reporting
- Coordinating 15+ events per semester by creating detailed project plans, routine check-ins, and ensuring seamless execution of A/V setups across Brightspace and Zoom with Crestron systems and Shure IntelliMix

NTT Data Inc. AI/ML Systems Engineer Intern

May 2024 – August 2024

- Developed and deployed a production RAG-based ML-powered chatbot prototype on Google Vertex AI Studio to streamline client financial compliance inquiries and reduce manual reporting time by 30%
- Implemented Agile methodologies, aided in coordinating sprints and deliverables using Jira and Confluence, ensuring on-time project completion and consistent feedback loop to the Scrum Master and Product Owner
- Collaborated cross-functionally with NTT Data and Google Cloud teams across time zones in Spain, Asia Pacific, and North America to integrate chatbot solutions, aligning key business goals with technical feasibility

IDN Media Dashboard & Analytics Intern

May 2023 – July 2023

- Built Tableau dashboards from MySQL data, boosting Unilever Clear® ad engagement by 45%

Projects

Pokédex++

- Full-stack Flask web app with interactive dashboards, ML-powered stat prediction (Linear Regression, Random Forest), and CSV persistence

TrailFinder

- Social hiking platform with friends system, activity feeds, and JWT auth (Java, MySQL, React)

Technical Skills

Programming/Web Development: Python, C++, Java, JavaScript, Swift, HTML/CSS

Data Analysis: Excel, MySQL, Matplotlib, R, Tableau, Power BI

Machine Learning: PyTorch, TensorFlow, Scikit-Learn, LangChain, Google Vertex AI, Docker

Languages: English (native), Indonesian (native), Japanese (native), Mandarin (professional)

Leadership

USC Core Consulting Club Project Manager

January 2024 – May 2024

- Led a semester-long team of 5 consultants for Ohana Subleasing Co., leveraging Excel (Data Analysis ToolPak, PivotTables) to conduct time series, correlation, and regression analyses on raw housing market data
- Researched 12+ LA neighborhoods and interviewed 20+ stakeholders to compile insights and create data-driven recommendations guiding subleasing strategies

Research

Trisakti University Research Assistant

August 2022 – May 2023

- Consumer segmentation data-mining for Domino's Pizza using Naïve Bayes algorithm, Matplotlib, and R