Leo Thit

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EDUCATION

University of California, Los Angeles, *B.S Computer Science* 09/2023 – 06/2025 | Los Angeles
Relevant Coursework: Programming Fundamentals, Data Structures and Algorithms, Computer Architecture with Assembly Language, Logic Design in Digital Systems, Discrete Maths, Calculus

City College of San Francisco 08/2021 – 06/2023 | San Francisco

PROFESSIONAL EXPERIENCE

Software Engineer Intern, *Pickaxe* 07/2023 – present
- Developed a microservice leveraging Petals for seamless deployment of Llama2 across a distributed network, employed Docker for containerization, and facilitated hosting on Runpod. Achieved significant cost reductions, saving $1,000 monthly in GPU hosting fees.
- Constructed an advanced document summarization pipeline by harnessing BGE embeddings, implementing k-means clustering, conducting vector similarity searches, and integrating cutting-edge HuggingFace models
- Optimized resource efficiency by migrating vector embeddings to Milvus, an open-source vector database, resulting in a 90% reduction in RAM consumption.
- Enhanced the reliability and performance of API endpoints by implementing a rate limiter and proper error handling mechanisms.

Teaching Assistant, *City College of San Francisco* 08/2022 – 06/2023
- Evaluated and provided constructive feedback on assignments for a cohort of over 30 students enrolled in the "Programming Fundamentals C++" course.

Software Engineer Intern, *IM Republic* 05/2022 – 08/2022
- Developed a dynamic web application utilizing React, Typescript, and SASS, ensuring seamless responsiveness.
- Integrated REST API endpoints, enabling the presentation of data through dynamic and adaptive functionalities.
- Developed an efficient email service through EmailJS, fortified by reCAPTCHA authentication and accompanied by informative Toastr notifications.
- Refactored code-base, ensuring strict adherence to the SOLID design principles. This meticulous approach enhanced modularity, flexibility, and overall clarity.

PROJECTS

Toxic-Text-Classifier, *Python, TensorFlow, Keras, Scikit, Keras, Word2Vec, NLTK*
- Achieved 96% prediction accuracy by training a machine learning model to classify text for toxicity
- Efficiently imported, cleaned, and conducted comprehensive analysis on text data sourced from a Wikipedia dataset
- Leveraged a versatile NLP approach utilizing Word2Vec, along with a powerful toolset of Scikit, TensorFlow, Keras, and NLTK libraries, to successfully implement the model.
- *https://github.com/sunsheinthit/Toxic-Text-Classifier*

NlpSkins, *Python, Beautiful Soup, Pandas, Numpy*
- Utilized Beautiful Soup library to extract text and constructed Markov chains to replicate a specific character's dialogue with authenticity and precision.
- *https://github.com/sunsheinthit/SKINS_NLP*

AllyUp, *React, JavaScript, Node, Express, Firebase, HTML/CSS*
- Developed a full-stack web application designed to enhance transparency within non-profit organizations
- Leveraged Firebase to establish API routes for data management and user authentication
- *https://github.com/apcscap/allyup*

SKILLS

Python, JavaScript, React, Node, Git, HTML/CSS, TypeScript, C++, SASS, TensorFlow, Keras, Scikit, OpenAI, HuggingFace, Flask, Docker, Firebase, Express, NLTK, Word2Vec, Milvus, Llama2

AWARDS

Hack the Cloud 2.0 Seventh Place Overall: (Overall 7th/278 participants),
Hack the Cloud 2.0 SashiDo Prize: (Best implementation of machine learning with SashiDo),
Asian Coalition Scholarship: ($1000 award), **Community College Business Invitational:** (Finalist)