Leo Tsunghan Lee

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?: github.com/THL-Leo : thleo.co/

EDUCATION

University of Southern California

Master of Science in Computer Science - Data Science

University of California, Santa Cruz

Bachelor of Science in Computer Science, GPA: 3.82

Honors: Cum laude, Highest Honor in program.

SKILLS

Languages: Python, SQL, NoSQL, PostgreSQL, JavaScript, TypeScript, Swift, Kotlin, React Native, C, C++, Bash, Java

Tools: Pandas, Numpy, Oracle Live SQL, Agile Methodology, Docker, Express.js, Node.js, GIT, matplotlib, open3d, openGL

Courses: Foundation of AI, Deep Learning, Database Systems, Probability and Statistics, Analysis of Algorithms, Full Stack Development, Mobile Application, and Computer Networks.

EXPERIENCE

University of Southern California

Machine Learning Research Intern

Los Angeles, CA

Los Angeles, CA

Santa Cruz, CA

August 2023 - May 2025

October 2020 - June 2023

September 2023 - Now

- Leading research endeavors in the outlier detection lab involves integrating deep learning, unsupervised machine learning, and supervised machine learning as a benchmark to identify anomalies within extensive textual datasets.
- Currently in the process of developing a comprehensive Python library dedicated to the compilation and integration of the outlier detection algorithms.

University of Southern California

Los Angeles, CA

Artificial Intelligence Research Intern

January 2024 - Now

- Developed a Python script for merging ROS bag files at a generative AI lab, enabling seamless synchronization of data from multiple cameras and ensuring a unified timestamp for comprehensive analysis of robotic vision datasets.
- Currently leading the development of a CUDA-based Iterative Closest Point (ICP) script to transform an arbitrary point cloud to a reference point cloud.

University of California, Santa Cruz

Santa Cruz, CA

Tutor

March 2021 - June 2023

- Conducted up to 10 hours of weekly office hours to provide comprehensive support to students' labs and coursework.
- Incorporated both online and in-person sessions to break down lab assignments into achievable objectives.
- Partnered with TAs and Tutors to provide sessions for over hundred students

Projects

ROS TimeAlign

Project Lead January 2024

- Orchestrated the development of a Python script utilizing the rosbag library to merge and synchronize data from five separate camera bag files for accurate analysis.
- Implemented timestamp alignment techniques to harmonize the temporal data across multiple bag files, enhancing the reliability and consistency of the large-scale collected robotic data.

Mail Clone

Project Lead

September 2022 - December 2022

- Developed a Gmail replica utilizing React states and hooks to dynamically update the mail interface.
- Integrated Material UI library to ensure a well-tested and user-friendly interface.
- Deployed comprehensive testing on frontend, backend, and end-to-end using the React Testing Library and Puppeteer.