COLE SEVIER

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EDUCATION

University of Southern California Los Angeles, CA
Bachelor of Science - Computer Engineering and Computer Science May 2028
Honors: 4-Year Technical ROTC Scholarship GPA: 3.77
Selected Coursework: Embedded Systems, IOT development, Digital Circuits

EXPERIENCE

Infosys Limited
AI Engineering Intern July 2025-September 2025

- Telecommunications Federated Forecasting Project – Adapted and employed the FL-telecom repository to better forecast LTE network load using PyTorch and LSTM models, integrating data preprocessing, distributed training, and visualization enabling scalable, privacy-preserving telecom analytics, improving accuracy by 17%.
- Web-Based FL LLM Platform – Enhanced federated LLM by integrating Flower framework with OpenFedLLM, streamlining client coordination and improving model aggregation methods, resulting in 5% accuracy gain and 13% reduction in training time.

CAIS++ (Center for AI in Society's Student Branch) Los Angeles, CA
Undergraduate Researcher August 2024-Present

- Established PyTorch neural network to classify weather patterns from 13K+ data points with 87.1% accuracy, using temperature, humidity, wind speed, and precipitation features for climate prediction applications.
- Developed and implemented a CNN model to classify guava fruit diseases with 88.48% accuracy from a dataset of 473 annotated images. Preprocessed data with unsharp and CLAHE for feature extraction, and validated model performance across diverse conditions and symptoms.

SLURM Laboratory (Sensing, Learning, and Understanding of Robotic Manipulation Los Angeles, CA
Undergraduate Researcher January 2025-May 2025

- Explored simulation-based controls and trained robotic models using MuJoCo
- Incorporated MediaPipe hand tracking into robot learning pipeline for real-time teleoperation and demonstration collection
- Contributed to dataset development using Cross-modal Compensation Models for robot training on dual-arm tasks.

PERSONAL PROJECTS

Infosys Limited
Autonomous Campaign Agent - AI Marketing Automation Platform July 2025

- Built AI-powered marketing agent using local LLaMA3 (Ollama), finishing 5th out of 45 teams at Infosys Internal Hackathon
- Implemented full-stack system (Streamlit + Python) with Mailchimp API integration for production email campaigns and multi-channel strategy generation and created goal-aware campaign planner supporting 6 marketing objectives with platform-specific tactics, KPI tracking, and interactive Plotly dashboards
- Developed LLM-powered A/B testing framework that autonomously refines messaging based on performance signals, achieving 20% CTR and 15% ROI improvements.

SUMMARY OF QUALIFICATIONS

Experience building scalable distributed systems, real-time data pipelines, and production/consultant-quality tools using C++, Python, Docker, and PyTorch. Hands-on work in multimodal ML, robotics simulations, embedded development, data processing, and end-to-end system design aligned with challenges in 3D interaction, infrastructure, and high-performance platforms.

SKILLS AND INTERESTS

Machine Learning: PyTorch, NumPy, Pandas, Scikit-learn, Flower
Technical: C++, Java, Python, Verilog, Bash Scripting, SQL
Development Tools: Git, Docker, Linux/Unix, REST APIs, Flutter
Specialties: Federated Learning, Multimodal AI, Embedded Systems, Distributed Computing