

Chun Ho Li

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EDUCATION

University of California, Davis

Davis, CA

Master of Science: **Computer Science**

Sep 2026 – Expected Jun 2028

Bachelor of Science: **Computer Science** — Departmental Citation

Graduated Jun 2026

- **Relevant Coursework:** Machine Learning, Artificial Intelligence, Computer Architecture, Algorithm Design & Analysis, Linear Programming, Recommendation Systems

RELEVANT EXPERIENCE

University of California, Davis – Computer Science Department

Davis, CA

Student Assistant

Sep 2024 – Jun 2026

- Supported lower-division CS students through office hours, 1-on-1 tutoring, and annotated lecture notes
- Co-designed and tested new coursework and assessments for ECS 154A (Computer Architecture) alongside the teaching team

Space and Satellite Systems @ UC Davis

Davis, CA

Software Perception and Controls Lead, University Rover Challenge

Jan 2026 – Present

- Building a CAD-to-URDF pipeline and Gazebo/RViz simulation workflows to integrate and validate the Mars-analog rover's perception and motion-planning stack in closed loop with ROS 2, NAV2, and MoveIt

Software Lead, Attitude Determination and Control System

Sep 2025 – Present

- Re-architected the real-time B-dot detumbling loop in embedded C with two-stage output filtering, IMU-threshold exit logic, and timing isolation between magnetometer reads and magnetorquer firing to suppress self-induced field coupling
- Integrated LittleFS on the satellite's 16 MB QSPI NOR flash with static, malloc-free block-device callbacks and designed an ADCS telemetry logger with fixed-width rows for constant-time record seeks, writing 16 on-target tests for both

Tesla, Inc. – Cell Manufacturing

Fremont, CA

Production Associate

Jul 2022 – Sep 2022

- Built the QC data-capture system on the 4680 cell line that made reject data time-resolved and persistent, surfacing an E-Fill machine malfunction ahead of the plant's own monitoring
- Collected and analyzed sensor data across engineering trial iterations of 4680 cells, feeding observations back into rapid process tuning between hardware runs

US Army Reserve – Corps of Engineers

Camp Pendleton, CA

Sergeant

Aug 2021 – Present

- Built a platoon-level tracker for medical readiness tasks (PHA, PRR, Dental), replacing scattered company-wide spreadsheets and giving squad leaders a single view of soldiers' appointments and follow-ups
- Completed construction projects in Germany, including perimeter fencing, safety infrastructure, and utility structures

PROJECTS

Veterinary Cancer Report Classification Pipeline — UC Davis VMTH

Davis, CA

Graduate Student Researcher

Sep 2026 – Present

Lead ML Engineer, ECS 193A/B Capstone & Vet Med Student Assistant

Jan 2026 – Sep 2026

- Designed a 3-source coding system that codes every registry case from its most trusted source (specialist review > LLM diagnosis mapping > PetBERT report model), routing vague diagnoses to a specialist and reusing reviews as training labels
- Built the report model inside it: a contrastive-tuned PetBERT backbone and 4-stage PyTorch cascade reaching 62% agreement with diagnosis-derived labels (from a 3% cosine baseline); presented at Cornell's SAVY conference

DavisDine — UC Davis Dining Companion App

Davis, CA

iOS Developer

Jan 2026 – Present

- Co-developed and shipped a full-stack iOS dining app in Swift with a GCP backend, reaching 100+ App Store downloads
- Implemented AI-powered meal recommendations tailored to users' dietary restrictions, allergens, and daily macro goals

TECHNICAL SKILLS

- **Programming:** C++, C, Python, x86 Assembly, Bash, Swift, Java, Go, Lisp, Prolog
- **ML & Robotics:** PyTorch, Hugging Face Transformers, ROS 2, NAV2, MoveIt, Gazebo, RViz, URDF
- **Dev Tools:** Git, Linux, Docker, GCP, Vim, VS Code