

Phuc Truong

408-600-5952 | phuc@phuctruong.dev | phuctruong.dev planbear.io |

EDUCATION

University of California, Los Angeles

Bachelor of Science in Mathematics of Computation

Los Angeles, CA

Graduated June 2026

- **Relevant Coursework:** Operating System Principles, Data Structures and Algorithms, Algorithms and Complexity, Software Construction, Machine Learning, Computer Network Fundamentals

EXPERIENCE

Front Desk Attendant

University of California, Los Angeles

Dec. 2022 – Present

Los Angeles, CA

- Resolved time-sensitive service, access, and facilities issues for residents, faculty, and guests in a 24/7 environment, strengthening troubleshooting and root-cause analysis skills.
- Trained and onboarded new staff using documented procedures and process guidance, improving consistency across front desk operations.
- Collaborated with multiple departments to address housing and resident-service issues, reinforcing clear communication in a cross-functional setting.

PROJECTS

PlanBear.io | *React, Vite, Tailwind CSS, Node.js, Express, PostgreSQL, Sequelize, Supabase, JWT* | planbear.io Dec. 2025 – Present

- Built and deployed a full-stack degree planning platform with drag-and-drop scheduling across a **16-quarter** roadmap, supporting authenticated users and guest-mode planning.
- Designed and implemented secure **REST APIs** for planner persistence, authentication, and account workflows using **Express, PostgreSQL, Sequelize, JWT**, and **HttpOnly cookies**.
- Imported and normalized **15,154 UCLA course records** across **196 subject areas**, enabling scalable search, filtering, and sorted course discovery.
- Strengthened application security with bcrypt password hashing, password reset flows, Cloudflare Turnstile, Helmet, CORS controls, and rate limiting.

Homelab Anomaly Detection System | *Python, PyTorch, Prometheus, FastAPI, Docker, NumPy, TranAD* June 2026 – Present

- Adapted Strim Labs' TranAD anomaly detection repository from SMD benchmark data to real Prometheus telemetry collected from a self-hosted media server.
- Built a Dockerized live inference pipeline with a Prometheus exporter that streams server metrics to a FastAPI TranAD scorer and exposes anomaly scores back to Prometheus.
- Preprocessed, normalized, and windowed multivariate CPU, memory, and network telemetry, injecting synthetic anomalies to evaluate detection performance.
- Trained and evaluated **TranAD** on homelab telemetry, achieving **0.8485 F1**, **0.9333 precision**, and **0.8876 ROC/AUC** on synthetic anomaly detection.

BruinGrub | *React, Node.js, Express.js, MySQL, JWT*

Mar. 2024

- Collaborated in an Agile-style team to build a full-stack web application for browsing dining options, tracking nutrition, and submitting reviews.
- Developed frontend components and backend **REST API** functionality using **React, Express.js**, and **MySQL**.
- Contributed to database schema design, feature integration, testing, and debugging across the stack.

Self-Hosted Homelab Infrastructure | *Docker, Linux, Unraid, NFS, Cloudflare, Caddy*

2025 – Present

- Designed and maintained a self-hosted infrastructure stack using **Docker, Linux**, and reverse proxies for application hosting and monitoring.
- Configured secure networking with **Cloudflare, Tailscale**, and **HTTPS routing**, enabling remote access without port forwarding.
- Debugged real-world system issues across DNS, container networking, permissions, and service orchestration.

Clinical Note Restructuring Tool | *Zod, OpenAI API, Gemini API* | clinic.phuctruong.dev

Apr. 2026 – May 2026

- Built a full-stack clinical tool converting unstructured medical notes into structured summaries and admission decisions.
- Designed a deterministic rule-based pipeline to separate clinical reasoning from LLM-generated output.
- Implemented schema-constrained generation using **Zod, OpenAI**, and **Gemini**, ensuring consistent and editable outputs.

TECHNICAL SKILLS

Languages: Python, JavaScript, C/C++, SQL, Bash

Frontend: React, Vite, Tailwind CSS

Backend: Node.js, Express, REST APIs, Authentication (JWT, HttpOnly Cookies)

Databases: PostgreSQL, MySQL, MongoDB, Sequelize ORM

Cloud & Infrastructure: AWS (Elastic Beanstalk, S3, CloudFront), Docker, Linux, Cloudflare, Caddy, NFS, Tailscale, Prometheus, Grafana

AI / ML: Time-Series Analysis, Anomaly Detection, LLM APIs (OpenAI, Gemini), Zod

Tools: Git, Postman, Playwright