

Gagik Navasardyan

818-442-7069 | g.navasardyan@outlook.com | linkedin.com/in/gagik-navasardyan | github.com/navasardyangagik

EDUCATION

University of California, Los Angeles (UCLA)

B.S. in Electrical Engineering

Los Angeles, CA

Sep. 2026 – Jun. 2028 (Expected)

- **Relevant Coursework:** Computer Architecture, Circuits

EXPERIENCE

Software Engineer Intern

Jan. 2026 – Present

The Cornucopia Foundation – Malibu Farmers Market

Calabasas, CA

- Built a vendor-market management platform (React, Express, PostgreSQL, Prisma, TypeScript) used by 60+ active vendors to manage payments, applications, and compliance from a unified operator dashboard
- Led the migration of the payments system from Square to Stripe and built a custom invoicing structure for vendor booths, consolidating billing for 60+ vendors
- Built a constraint-based sampling scheduling engine with an offline-first caching layer, enabling reliable on-site data entry in low-connectivity market environments

Chief Technology Officer, Co-Founder

Jun. 2025 – Present

Live Studius, 501(c)(3)

Glendale, CA

- Shipped the nonprofit's full platform solo using Next.js, MongoDB, and Tailwind CSS, deployed on AWS at livestudius.org
- Integrated Stripe for donations and Shopify + Printful for merch-based fundraising; partnered with GCC Scholars to raise over \$2,000 for student research and distribute 400+ school supplies

Undergraduate Research Assistant

Jul. 2023 – Jan. 2024

California State University, Los Angeles – Condensed Matter Physics Lab

Los Angeles, CA

- Prepared and processed nanomaterial samples (grinding, annealing, mounting) for graduate-level condensed-matter research on superconducting and superparamagnetic materials under faculty supervision
- Operated lab instrumentation (PPMS, SEM, AFM) to characterize magnetic susceptibility, surface morphology, and nanoscale topography across sample batches

PROJECTS

Bare-Metal STM32 Firmware | C, ARM Cortex-M4, arm-none-eabi-gcc, OpenOCD, Make

Aug. 2026

- Built 23 bare-metal driver projects for the STM32F411RE directly from the reference manual with no HAL, RTOS, or third-party libraries, covering GPIO, UART, I2C, SPI, ADC, timers, external interrupts, and DMA
- Wrote an interrupt-driven UART driver and a DMA transmit path (DMA1 Stream6) that offloads serial output from the CPU, plus interrupt-driven ADC and timer capture/compare drivers
- Implemented a register-level I2C driver and BME280 sensor driver that reads factory calibration coefficients and applies the manufacturer's compensation algorithm to produce calibrated readings

Lite Software, LLC | Python, Flask, AWS, Gunicorn, Nginx

Jul. 2024 – Dec. 2024

- Built and deployed an algorithmic trading bot automating a reverse-split arbitrage strategy across 30+ brokerage accounts, scaling from CLI prototype to a full web app
- Implemented multi-threaded order execution to run concurrent trades in parallel across accounts; built license authentication and distributed to 50+ users, generating \$1,000 in license revenue

OurGreenCity (Hackathon Winner) | Next.js, Node.js, MongoDB

Sep. 2025

- Developed an interactive web app mapping trees and dead plant matter across a city to identify high fire-risk zones
- Led a 3-person team in designing a scalable backend and data visualization dashboard for real-time environmental tracking
- Awarded **Best Software** at Jewel City Hacks 2.0 among 40+ participants

TECHNICAL SKILLS

Languages: C, C++, Python, TypeScript, JavaScript, Java, SQL, HTML/CSS

Frameworks & Libraries: React, Next.js, Node.js, Express.js, Flask, Tailwind CSS, Prisma

Developer Tools: Git, Docker, Linux, Neovim, tmux, GDB, VS Code, Vercel, AWS

Hardware & Lab: PPMS, SEM, AFM, oscilloscope, multimeter, soldering