Dev Mehra

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EDUCATION

University of California, Los Angeles, CA **Sep. 2025 - Present**

Electrical Engineering, B.S. (June 2029), GPA: 3.70

Relevant coursework: CS 32 (Introduction to Computer Science II), CS 180 (Introduction to Algorithms and Complexity, in progress), ECE M16 (Logic Design of Digital Systems), Math 33A (Linear Algebra)

PROFESSIONAL EXPERIENCE

Nanalyt (nanalyt.com) **Feb. 2026 - Present**

Founding Engineer *Los Angeles, CA*

- AI product research platform that validates e-commerce product demand from cross-platform consumer signals
- Built data ingestion layer and unified knowledge graph aggregating data from social media channels, community discussion, search, and paid-ad sources, with relevance gating and quality controls
- Designed AI-driven synthesis, NLP + ML scoring stack, embedding-based clustering that surfaces buyer angles and market gaps, and agentic research pipelines powering the core intelligence and reporting modules
- Built Meta ads integration that feeds campaign results back into research reports
- 16 e-commerce sellers currently piloting the platform

LABKickstart, Inc. (Labkickst.art), Founders, Inc. Offseason II Cohort **Apr. 2026 - Present**

Co-founder & CTO *San Francisco, CA*

- Built Ronto with a vision to revolutionize physics lab classes in high schools via a low-cost modular wireless-sensor lab
- Won 1st place at UCLA IEEE IdeaHacks 2026, largest hardware hackathon on the West Coast
- Lead for full technical stack: ESP32/BLE firmware (C++) with OTA updates, real-time Python/FastAPI hub, vanilla-JS charting dashboard
- Pilots underway at 2 California schools

Bruin Entrepreneurs **Oct. 2025 - Present**

Director of Recruitment & Education *Los Angeles, CA*

- Leading recruiting operations for UCLA's premier entrepreneurship org
- Technical consultant to startups in the AI infrastructure and enterprise software space (StartupLabs)
- Organized and hosted founder events with venture firms (Draper Associates, Mucker Capital, Rainfall Ventures) and venture-backed startups

PROJECTS

Post-Transformer Model Implementation (Dragon Hatchling)

- Trained and released on Hugging Face (d3vmeh/small-dragon-hatchling-models) and GitHub (d3vmeh/small-dragon-hatchling) open BDH language models (25M, 50M and 100M parameters) on up to 5.4 GB of web and story text
- Measured how the alphabet (bytes vs. tokens), tuning data, and inference depth change what the models learn and remember, using streaming inference and memory tests I built
- Built streaming inference that feeds one token at a time into the model's synaptic state: matches full recompute to 2e-5 in logits at constant cost per position

DeepSeek Harness Plugins

- Built and published six open-source plugins for the DeepSeek Harness coding agent, targeted at local llama.cpp models: request gating for single-slot servers, prefill-speed-aware context budgeting, process-wide fetch timeouts, failure-layer turn diagnosis, plugin log capture, and allow-list model pinning
- Listed in awesome-deepseek-harness (~1k stars) (0xsline/awesome-deepseek-harness)

Housing Intelligence (housing-intelligence-v1.vercel.app)

- Web app that converts floor plans into workable 3D models using multimodal LLMs
- Interactive chat functionality to import 3D furniture from Amazon links

Music Mixing Station

- Built a custom DJ board with 16 faders, knobs, buttons multiplexed into a Raspberry Pi Pico, which streams control changes over a custom serial protocol to a Raspberry Pi with a touchscreen
- Bluetooth and wired audio, custom designed 3D printed enclosure, deployable updates via Tailscale
- Designed a v2 PCB in KiCad with filtered analog inputs and a ground plane to reduce noise, then fabricated and bench-tested it

"AI Foreign Policy Assistant Powered by GraphRAG Techniques"

- Independent research paper and interdisciplinary project (d3vmeh/llm-policy-generation)

INTERESTS & SKILLS

- Proficient in Python, Java, C, and C++, as well as Linux, PyTorch, scikit-learn, Pandas, and NumPy
- Completed Coursera and DeepLearning.AI courses: *Machine Learning Specialization* (3 courses), *Generative AI for Software Development Professional Certificate* (3 courses)
- Languages: English (native), Spanish (proficient)
- Interests: Playing pickup basketball, late-night runs, video game design, cooking