

Avyaya Kumar

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EDUCATION

University of California, Los Angeles

Los Angeles, CA

B.S. in Computer Science and Engineering

Expected June 2030

- Prior coursework at Ohlone College (**4.00 GPA**): Calculus, Differential Equations, and Linear Algebra

James Logan High School

Union City, CA

High School Diploma

Aug. 2022 – May 2026

- **ACT: 35/36 | GPA (grades 10–12):** 3.95/4.00 unweighted; 4.75/5.00 weighted
- **Speech & Debate (3 years), Original Oratory Captain: 3rd in California;** 2-time Glenbrooks semifinalist; National Individual Events Tournament of Champions (NIETOC) semifinalist; 2-time NSDA Nationals octafinalist

EXPERIENCE

Technology Intern

Oct. 2025 – May 2026

Grafiniti

California

- Collaborated with engineers to build an interactive market-intelligence platform using React/Vite and TradingView charts to identify large asset-price movements and connect them with relevant news events
- Built and deployed a scheduled Node.js/Express/PostgreSQL market/news pipeline with Claude-generated, source-linked summaries, used by asset managers to analyze historical price movements around news events.

PROJECTS

Ideation Detection | *Python, PyTorch, FastAPI, PostgreSQL*

[GitHub](#) | [Demo](#)

- Co-founded and led development of an NLP platform used by James Logan High School teachers since Sept. 2025; fine-tuned RoBERTa on **232,074 samples** (80/10/10 split), achieving **99.45% held-out test F1**
- Built a FastAPI/PostgreSQL backend with email/phone redaction and reviewer feedback, plus Celery/Redis processing and Integrated Gradients; deployed with Docker/Railway; flagged nearly **100 submissions** for educator review and averaged **3.7/5** across a multi-question usefulness survey of **5 teachers**

Ballotbox (Real Advocacy) | *Next.js, Leaflet*

[Live](#) | [GitHub](#) | [Writeup](#)

- Built and deployed a nonpartisan voter-information site using the Google Civic Information API, Google geocoding, and Leaflet/OpenStreetMap to surface assigned polling places, early-voting sites, and ballot drop boxes
- Adopted by the **Union City Youth Council** for voting initiatives; registered **40+ new voters** and increased reported JLHS voter turnout by **20%**; planned adoption by a **League of Women Voters** chapter

Exercise Form Checker | *Python, YOLOv8, OpenCV, Streamlit*

[GitHub](#)

- Fine-tuned YOLOv8 on Penn Action (**163,841 frames**, 2,326 videos); built an OpenCV/Streamlit app with joint-angle, alignment, range-of-motion, and annotated-video feedback for **15 movement types**

LEADERSHIP & EVENTS

Founder and Lead Tutor

Mar. 2025 – Present

Avyaya's Tutoring

California

- Founded and scaled a free coding and mathematics tutoring organization serving **100+ students**; recruited and managed **15+ tutors** and developed curricula in Python, Java, C++, web development, and mathematics

Hackathon Organizer

Aug. 2024 – May 2026

JLHS Hackathons

Union City, CA

- Organized **4 hackathons** drawing **350+ total attendees**; led a **6-person team** across challenge design, marketing, and day-of logistics

TECHNICAL SKILLS

Languages: Hindi, English, Punjabi; Python, C++, Java, TypeScript/JavaScript, SQL

Frameworks / ML: PyTorch, Hugging Face, OpenCV, React, Next.js, Node.js/Express, FastAPI

Data / Infrastructure: PostgreSQL, Redis, Firebase, Supabase, Docker, Git/GitHub, Vercel, Railway