

EROL KALAYOGLU

Entrepreneur · Engineer · Filmmaker

USC Viterbi '30 · Los Angeles, CA
erolmunci@gmail.com · 240-815-9148
grademelon.org · linktr.ee/erolke

EDUCATION

University of Southern California, Viterbi School of Engineering · Los Angeles, CA · Class of 2030.

Montgomery Blair High School, Communication Arts Magnet · 2022–2026 · **4.94 W / 3.98 UW GPA · SAT 1550.**

BUILT

GradeMelon · grademelon.org — Co-Founder & Lead Developer

- Reverse-engineered Montgomery County's legacy Synergy/StudentVue gradebook (SOAP/XML) and shipped a modern client on top of it; beta-tested in one high school, then released county-wide to **~4,000 daily users**.
- Stored **zero student data server-side** behind AES-encrypted cookies; Next.js 14/TypeScript on Cloudflare Workers, NDJSON streaming, "What-If" GPA calculator. Published research on its impact in the **International Journal of High School Research (IJHSR)**.

mementoMorri — Flutter/Dart Android App

- Released an app with **2,000 downloads** that renders your life as a dot grid and re-applies it as a live wallpaper via a background worker and native Android MethodChannels.

Prediction-Market Trading Bot

May 2026–present

- Built an automated trader that realized **\$14,000** on Chainlink-resolved BTC 5-minute markets; cut order latency **961ms to 47ms** by moving execution to AWS Ireland, while a backtest harness killed most candidate strategies before they traded.

Canvas LMS Vulnerability Disclosure — responsibly disclosed an XSS caused by outdated jQuery 1.7.2 (CVE-2015-9251); built a Node/Express PoC and video demo. **Instructure shipped the fix and issued credit.**

Converse — **2nd of 80 teams at MoCo Hacks**: iterated from a Kotlin/Whisper Android prototype to a Gemini Live desktop assistant with persistent context and live camera and screen input.

FOUNDED & LED

ERA Tech Support — **Founder**: started a free tech-support service and **served 140+ seniors aged 65+**, installing Wi-Fi, repairing devices, and guiding purchases.

Geoguessr Club — **Co-Founder & President**: grew a new club to **40+ members** and ran competitive tournaments drawing 35+ participants.

Business Professionals of America — **Co-President**: revived the school chapter to **25+ active members** and ran a "Finance Fundamentals" student budgeting workshop.

FILM & BROADCAST

Nepal Documentary — Director & Producer · Friends of Ek Ek Paila Foundation

2026

- Spent ten days in Nepal directing a documentary for a 501(c)(3) running volunteer medical camps in isolated Himalayan communities; it anchors a campaign that **raised over \$5,000 in its first week**.

Independent Filmmaker — Director & Co-Producer · two shorts, two documentaries · featured on **NBC 4**

- Grand Prize & Fan Favorite**, Montgomery County Overdose Awareness, **1st of 1,800+ entries** (2025); **Grand Prize**, DOT Pedestrian Safety (2024); **Official Selection**, NYC All-American HS Film Festival (2025).
- Over \$6,000 in prize money**, reinvested in camera and audio gear; received the **Congressman Jamie Raskin Local Hero Award** (2024) for viral pedestrian-safety PSAs.

Blair Network Communications — Production Team Exec & Technical Director: led a **40-person team** producing **28 segments** for the daily multi-camera morning show.

EXPERIENCE

JumpLights Inc. — Engineering Intern · Germantown, MD

Spring 2023, Fall 2023, Summer 2024

- Unprompted, 3D-printed a tape dispenser to break an assembly bottleneck on a line running hundreds of units a day; the manager estimated **~20% faster production**, and the team that doubted it adopted it.

Growing Hope Globally — Lead Developer, only high-school intern · Carol Stream, IL

Summer 2023

- 2nd of 150+ entries, Congressional App Contest (MD-08)**: sole developer of a mobile app connecting donors to individual farmers across **13 countries**; reported to the CEO.

SKILLS

Software: TypeScript, Python, Java, Kotlin, Dart, SQL · React, Next.js, React Native, Flutter, Flask

AI & hardware: RAG systems, Whisper, Gemini Live · 3D printing, Onshape CAD, DIALux

Creative: DaVinci Resolve, Premiere Pro, After Effects, Photoshop, Figma · screenplay writing