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OBJECTIVE:

Seeking an internship where I can apply my experience in full-stack development.

EDUCATION:

University of California, Davis | 2025 - 2029

Bachelor of Science in Computer Science and Engineering

University of California, Los Angeles | 2024

COSMOS summer program: AI for Speech and Imagery with Professors Alwan & Kadambi

Dos Pueblos High School | GPA: 4.75 / 5 | 2021 - 2025

SKILLS:

Languages: Typescript/Javascript, Python, Java, C, C++

Frameworks & Libraries: Next.js, React, PyTorch, TensorFlow, Hugging Face, Tailwind CSS

Platforms: MongoDB, AWS (Lightsail, Lambda, Route 53, SQS), Cloudflare (Workers, D1, R2)

AI/ML: Neural Networks, Computer Vision (YOLO), Dataset Augmentation, Feature Embeddings

RELEVANT EXPERIENCE:

UC Davis Codelab - Nova Software Engineer | 2025 - Present

- Engineered scalable image management system with RESTful backend routes, Box API cloud storage, and Supabase for file/folder metadata management.
- Architected serverless pipeline using AWS Lambda and SQS for asynchronous AWS Nova embedding generation, enabling **semantic image search with < 1s latency**.
- Developed full-stack file management with Box SDK and Supabase PostgreSQL, collaborating cross-functionally to design upload/download workflows for frontend integration.

Clove Growth - Software Engineer | 2025 - Present

- Developing AI-powered marketing analysis platform implementing LLM-based evaluation of ad copy-landing page consistency and first-time user onboarding experience to identify conversion bottlenecks and UX improvements.
- Building automated sentiment analysis pipeline to process customer reviews extracting actionable insights based on brand perception and customer pain points.

Octobots (First Robotics Competition) - Vice President / Software Lead | 2022 - 2025

- Founded and led a software team of 10 engineers to implement autonomous trajectory following, AI object detection (YOLO), and precise automatic alignment using AprilTags and tuned PID.
- Elevated team ranking from **43rd to 10th out of 300 in California** within one year through strategic coding and training initiatives.
- Mentored 15 members/year, creating lessons to guide members to Java and robotics proficiency.
- Awards: World Championships Qualifier, Rookie All Star (Year 1), Rising All Star (Year 3)

Dos Pueblos High School Coding Club - President / Founder | 2022 - 2025

- Founded and grew the club to 15 members, **won 1st place** in UCSB's International CTF Hacking Contest (High School Section) by personally exploiting a directory traversal vulnerability.

RELEVANT PROJECTS:

Child vs. Adult Speech Classification - [IEEE ITAIC 2025 Published Research Paper](#) | 2024 - 2025

- Achieved **93.5% accuracy** via cross validation optimizing neural networks, logistic regression, XGBoost, and transformers with HuBERT, Whisper, & ECAPA-TDNN to extract embeddings
- Unified 6 large-scale datasets, including 2 private datasets provided by UCLA's Speech and Auditory Processing Lab to create a comprehensive training corpus.
- Applied impulse response convolution to augment data and reduce recording artifacts.

Video Collaboration Platform - Cloud-Native Media Platform with Adaptive Streaming | 2025 - Present

- Built a full-stack serverless platform using Cloudflare Workers and Next.js with Google OAuth.
- Engineered automated video processing pipelines with AWS Lambda generating 4 quality tiers (1080p/720p/480p/360p) via HLS transcoding, enabling adaptive bitrate streaming.
- Developed responsive frontend featuring custom video player with frame-accurate seeking.
- Designed database schema in Cloudflare D1 with **11 interconnected tables and 20+ indexes**.

Full-Stack Recipe Generation Platform - [Privacy-Focused Web App with Social Features](#) | 2024 - 2025

- Architected Next.js web app using **client-side YOLO detection** to identify ingredients locally, sending detected items to the ChatGPT API for recipe generation.
- Integrated Google OAuth and MongoDB, and built social features including recipe sharing, commenting, feedback forums, and privacy controls for public/private recipes.