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EDUCATION:

University of California, Davis | Expected May 2029 | GPA: 4.0
Bachelor of Science in Computer Science and Engineering

UCLA COSMOS - AI for Speech and Imagery | Summer 2024

SKILLS:

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

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

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

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

RELEVANT EXPERIENCE:

Clove Growth

Founding Software Engineer | Oct 2025 - Present

- Built a centralized AI-powered marketing platform using the ChatGPT API, integrating multi-source data pipelines enabling semantic search and insight generation.
- **Processed 15,000+ customer reviews to extract brand perception** and customer pain points, generating actionable marketing intelligence.
- Replaced manual SSH deployments with GitHub Actions CI/CD pipelines and zero-downtime blue-green workflows, integrating automated code review via OpenAI Codex to improve release speed and quality.

Benevolent Bandwidth Foundation

Software Engineering Consultant | Jan 2026 - Present

- Built backend on Google Cloud Platform using ChatGPT API to OCR clothing tags, extracting climate impact data and cross-referencing with internal datasets for accuracy.
- Conducted cross-platform manual testing of React Native frontend across Android and iOS, verifying core user flows and ensuring consistent behavior across platforms.

UC Davis Codelab

Infrastructure Lead | Jan 2026 - Present

- Migrated existing image management system into a Progressive Web App, executing cross-database migration and implementing secure, role-based authentication workflows.

Software Engineer | Oct 2025 - Dec 2025

- Architected serverless AWS pipeline with Lambda and SQS for Nova embeddings, integrating Rekognition for facial recognition enabling **low-latency semantic and people image search**.
- Engineered full-stack image management system with RESTful backend routes, Box API cloud storage, and Supabase PostgreSQL, including cross-functional workflow design with frontend.

Octobots (First Robotics Competition)

Vice President / Software Lead | Aug 2022 - Jun 2025

- Elevated team ranking from **43rd to 10th out of 300 in California** within one year.
- 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.
- Mentored 15 members/year, creating lessons to guide members to Java and robotics proficiency.
- Awards: World Championships Qualifier, Rookie All Star (2023), Rising All Star (2025)

Dos Pueblos High School Coding Club

President / Founder | Aug 2022 - June 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:

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