

Huntington Co

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EDUCATION

University of California, Los Angeles

B.S. in Computer Science, Regents Scholar

Los Angeles, CA

Expected: Mar 2027

- Relevant Coursework: Operating Systems, Data Structures & Algorithms, Software Construction, Programming Languages, Web Development, Machine Learning, Linear Algebra

TECHNICAL SKILLS

Languages: Python, C/C++, Java, JavaScript/TypeScript, SQL, R, MATLAB

Frameworks: React Native (Expo), React, Next.js, Express.js, Django

ML/Data: PyTorch, TensorFlow, Pandas, NumPy, Matplotlib, OpenCV

Tools/Platforms: Supabase (Postgres, Auth, Storage), PostgreSQL, MySQL, Docker, Git, GitHub Actions, Railway

PROJECTS

Bruin Dining Companion (Dietary Restrictions Mobile App) | *React Native (Expo), PostgreSQL, Supabase* 2025 – Present

- Designed a normalized Postgres schema (users, restrictions, aliases) with indexed join tables and Supabase RLS policies to enforce per-user access and fast filtered lookups
- Built local-first state with optimistic updates, background sync, and retry/error handling to keep the UI responsive while maintaining consistency between client cache and Postgres
- Built reusable React Native components/hooks to filter and render UCLA dining menus by dietary restrictions
- Integrated auth-backed workflows and validation logic to maintain data consistency across clients and backend services

Asset Scanner (CV Safety Classification) | *Python, OpenCV, Node.js, Next.js, MongoDB* Oct 2025 – Dec 2025

- Built an end-to-end CV pipeline; labeled 5,000+ assets into safety classes (sexual, weapons, violence)
- Integrated ShieldGemma 2-4B-IT with OpenCV preprocessing to improve robustness on noisy images
- Designed and evaluated ensemble + thresholding strategies with error analysis (confusion matrix on edge cases), reducing misclassification ~30% vs. a single-model baseline
- Automated batch inference, cutting moderation effort ~80% and reaching ~92% precision

AI Quiz Generator | *Express.js, PostgreSQL, OpenAI/BLOOM, Docker, Railway* Feb 2025 – Mar 2025

- Built and deployed REST APIs for quiz generation, semantic search, and favorites with scalable architecture
- Implemented JWT auth, role checks, and email-domain validation to prevent abuse and unauthorized access
- Parsed and vectorized PDFs to generate structured Q&A, using chunking + prompt templates with regex post-processing/validation to enforce stable formatting across outputs
- Containerized services with Docker and deployed via Railway for reproducible builds and simplified environment management

EXPERIENCE

UCLA Regents Scholar Society

Software Engineer

Apr 2025 – Present

Los Angeles, CA

- Built a cross-platform app (Expo/React Native + Supabase), owning core features and backend data modeling
- Implemented event calendar, RSVP flows, and persistent profiles with auth-backed access control
- Shipped MVP iterations from 70+ interviews; partnered with PR/design and raised \$1.2K+ for hosting/tooling
- Coordinated delivery across a 12-person cross-functional team to validate usability and release on schedule

UCLA Regents Scholar Society

Web Developer Intern

Feb 2025 – Present

Los Angeles, CA

- Built a dynamic events calendar that auto-removes expired events, improving freshness and reducing manual updates
- Upgraded legacy dependencies to remediate critical OpenSSL vulnerabilities, improving security and deployment reliability
- Renewed production hosting and negotiated a 30% HostGator cost reduction, lowering annual spend

California Institute of Technology

Data Research Intern

Nov 2023 – Jun 2024

Pasadena, CA

- Analyzed 10+ years of USGS aquatic/weather data on extreme weather impacts to dissolved oxygen
- Built Python ETL and visualizations (time-series, heatmaps, scatter) to surface trends, anomalies, and seasonality
- Supported hypothesis testing by linking weather anomalies to dissolved oxygen variability via correlation analysis