

David Hernandez

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EDUCATION

California State University, Los Angeles

Expected May 2027

Bachelor of Science in Computer Science GPA: 3.99

Los Angeles, CA

- Relevant Coursework – Software Engineering, Cybersecurity, Networking, Data Structures, Database Fundamentals, Object-Oriented Application Development, Analysis of Algorithms, Artificial Intelligence, Web and Internet Programming

EXPERIENCE

Software Engineer Intern

Oct. 2025 – December 2025

Hardline AI

Santa Monica, CA

- Supported production systems for an AI-powered VoIP platform, contributing to system reliability through proactive monitoring, log analysis, and incident troubleshooting.
- Worked extensively with AWS services (EC2, S3, Lambda) to support cloud infrastructure and automate secure data workflows.
- Designed and implemented Grafana dashboards to monitor application behavior and business metrics, performing root cause analysis and performance profiling of Python services.
- Automated manual reporting processes using AWS Lambda and Python scripts, eliminating repetitive queries and improving operational efficiency.
- Authored Software Design Specifications (SDS) and Software Requirements Specifications (SRS) to formalize dashboard architecture and system workflows. Collaborated directly with senior engineers and founders to translate strategy into actionable technical tasks, contributing to SDLC build and release processes.
- Responded to production issues in real-time via Slack-based on-call support and maintained clear technical documentation.

Special Education Paraprofessional

Sep. 2024 – Present

LAUSD

Los Angeles, CA

- Collaborate with educators and support staff to implement structured plans and adapt processes to meet individualized requirements.
- Assist in developing and executing Individualized Education Plans (IEPs), reinforcing documentation standards and cross-functional communication.

PROJECTS

Flappy Bird DQN Agent | *PyTorch, Gymnasium, Python*

October 2025

- Built a Deep Q-Network (DQN) reinforcement learning agent using PyTorch with structured logging and reproducible experimentation.
- Analyzed reward metrics for performance profiling and optimization using modular development practices aligned with SDLC workflows.

Book Exchange System (Full-Stack App) | *Django, Python, SQL, JavaScript*

September 2025

- Developed a full-stack Django application with SQL-backed models and secure authentication.
- Containerized the application using Docker and Docker Compose for reproducible development environments.
- Designed RESTful endpoints and implemented OAuth-based authentication, reinforcing secure API development practices.

TECHNICAL SKILLS

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

Cloud & Infrastructure: AWS (EC2, S3, Lambda), Networking Fundamentals (TCP/IP, DNS, Firewalls)

DevOps & Reliability: CI/CD Concepts, Monitoring & Log Analysis, Grafana, Docker, Docker Compose

Systems: Unix/Linux Administration, Performance Profiling, Memory Analysis

Frameworks & Tools: Django, PyTorch, Git/GitHub

Security: OAuth2, Secure API Design

Other: Technical Documentation, Cross-functional Collaboration, Agile/Scrum