

Gavin Duong

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Education

University of California, Riverside	June 2026
<i>Bachelor of Science in Computer Science with Business Applications</i>	
Relevant Coursework: Applied Machine Learning and Data Mining, Data Management, Edge Computing, Data Structure and Algorithms, Design Operating Systems, Software Engineering, Wireless Networks, Financial Accounting and Management, Marketing and Distribution Channels, Databases for Management	

Work Experience

Student Recreation Center at University of California, Riverside	Riverside, CA
<i>Competitive Sports Supervisor</i>	September 2025 - June 2026
- Supervised 50 Site Managers and Intramural Officials to ensure successful execution of all 4 Intramural Sports and 20+ Clubs and their events. - Worked directly under the Coordinator and Assistant Director to streamline departmental operations and enhance efficiency. - Analyzed weekly logistical data to accurately forecast departmental resource needs, regulating the allocation of equipment and facility spaces to optimize operational efficiency.	
<i>Site Manager</i>	July 2024 - September 2025
- Supported aid to any technical errors across the departments 12 iPads, 12 radios and two computers. - Oversaw 30+ Intramural Officials and 200+ participants across all Intramural Sports and Sports Clubs activities such as practices and games. - Maintained secure and confidential records of incident reports and staff interactions while enforcing strict university recreation policies and safety regulations during all operational hours.	

Projects/Certificates

Personal Portfolio Website	May 2026 - Present
<i>Developer</i>	
- Architected and deployed a serverless Python Django backend on Vercel, establishing secure DNS traffic routing to a custom domain. - Integrated a cloud-hosted Neon PostgreSQL database utilizing <code>dj-database-url</code> for robust environment variable management and remote schema migrations. - Configured WhiteNoise middleware to optimize, compress, and reliably serve static UI assets and media files within a read-only production environment.	
MLB Predictor	March 2026 - April 2026
<i>Developer</i>	
- Engineered a robust data pipeline using Pandas to process over 4,100+ historical MLB player-seasons, constructing custom composite IDs and calculating complex time-series features while strictly managing missing values. - Developed a predictive machine learning model with Scikit-Learn (Ridge Regression) to forecast a player's future On-Base Plus Slugging (OPS), achieving a Mean Absolute Error (MAE) of 0.0683 on out-of-sample data. - Implemented a custom time-series backtesting framework to simulate real-world forecasting, iteratively training the model across 20+ historical seasons to prevent data leakage and rigorously validate predictive accuracy.	
CookCraft	September 2025 - February 2026
<i>Backend Developer</i>	
- Developed a personalized recipe generation application utilizing the Gemini API, taking into account the user's inventory, dietary restrictions, and cuisine preferences. - Utilized Supabase as the primary backend service to manage personal preferences, user meal logs, saved recipes, and real-time inventory tracking. - Implemented secure user sessions using Supabase Authentication Magic Link, ensuring that features like profile preferences, recipe creation, and history access are protected by active session tokens.	
Generative AI	September 2025
<i>Udemy Certification</i>	
- Mastered the implementation of Large Language Models (LLMs) using frameworks like LangChain and LlamaIndex to build context-aware applications. - Designed and deployed a full-stack AI Chatbot integrated with OpenAI's API, managing the end-to-end lifecycle from prompt engineering to API cost optimization.	

Technical Skills

Languages: C++, Python, SQL, Node.js (JavaScript, TypeScript), HTML
Frameworks: Next.js, React, Jest, Django, PostgreSQL
Developer Tools: Neon, Vercel, Supabase, Gemini API, Github, ESLint, Prettier, CMake, Valgrind, ARCGIS, Google Suite