Julian Yanes

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Education

California State University, Long Beach (CSULB)
Bachelor of Science in Computer Engineering | GPA 3.5 Expected Graduation**:** 2028
Relevant Coursework: Algorithms, Data Structures, Operating Systems, Digital Logic

Experience

Software Engineer Fellow - Headstarter Remote | July 2024 - September 2024

- Built and deployed 6 AI projects in 5 weeks using React.js, Next.js, Firebase, Clerk, and Vercel while following weekly Agile sprints and CI/CD workflows.
- Collaborated with 3 Fellows to build and deploy a SaaS product that generates dynamic flashcards on any topic using the Llama 3.1 LLM via the Groq API.
- Participated in weekly sessions with engineers from Google, Y Combinator, Stanford, Amazon, and venture-backed startups, gaining insights and mentorship from industry leaders.
- Built and shipped **Study Mingle**, a study partner matching platform; owned authentication, user profiles, real-time matching using Firebase and Clerk, and grew an active Discord community to **100+ members.**

Student IT Support Assistant - CSULB Long Beach, CA | August 2025 - Present

- Diagnosed and resolved LMS hardware/software issues across Canvas, Zoom, and Microsoft 365, ensuring faculty and students remain on schedule.

Projects

Options Risk CLI · Python, Black-Scholes
- Independently researched and implemented a real-time command line interface that fetches live SPY/QQQ option chains, auto-selects the nearest expiration and ATM strike.
- Solves implied volatility via Newton-Raphson, converging in an average of four iterations and roughly twenty times faster than a bisection baseline, then outputs real-time Greeks accurate to floating-point precision.

Cheese · TypeScript, React, Canvas API
- Designed a hybrid pursuit AI combining Q-learning with A* pathfinding.
- Implemented a first-person, software-rendered raycasting engine from scratch with real-time texture mapping, distance fog and perspective-corrected floor projection using the Canvas API.

Digital Wellness Passport · React, Python
- Admitted as 1 of 20 teams from 1,000+ CSU applicants at Cal Poly's 2026 DxHub AI Summer Camp.
- Developed an AI-powered dashboard for CSU Bakersfield Student Health Services in a 1-week sprint, working directly with AWS Solutions Architects and AWS Software Engineer mentors using AWS's Working Backwards methodology.

Skills

- **Programming Languages:** C++, Python, Java, JavaScript, TypeScript, C, SQL
- **Frameworks**: Express.JS, Flask, Next.js, Node.js, PyTorch, Tailwind, React
- **Tools:** AWS, Firebase, Git, GitHub, LTSpice, Postman, Vercel, Vivado, VS Code
- **Embedded & Hardware:** Arduino IDE, ESP32-S3, FPGA, 8051, STM32, Verilog