

Kyle Modina

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EDUCATION

California State University, Long Beach

Aug 2022 - May 2026

B.S. Computer Science

Association for Computing Machinery, CSULB Programming Team, Google Student Developer Club, AI Research Club

- **Relevant Coursework:** Machine Learning, Data Structures, Algorithms, Databases, Object-Oriented Programming

Ritsumeikan University | Osaka, Japan

Mar 2025 - Aug 2025

Study Abroad Program

GPA: 4.0

- **Relevant Coursework:** Computer Networks, Distributed Systems, Mobile Applications, Web Information Engineering

EXPERIENCE

Undergraduate AI Researcher

Long Beach, California

California State University, Long Beach

Nov 2025 – Present

- Modeled multi-agent coordination across gaming, sports, and autonomous driving domains using Spatio-Temporal Logic, uncovering behavioral patterns across 3 distinct real-world environments
- Built Meta SAM3-integrated pipelines to automatically extract and evaluate agent trajectories from raw video, reducing the effort required for manual behavioral analysis

Lead Coding Instructor

Cerritos, California

Code Ninjas

Sep 2022 - Dec 2024

- Taught web development to 150+ students, driving a 20% increase in engagement through tailored learning plans
- Mentored students on end-to-end JavaScript and C# projects in Unity, producing functional games and interactive applications

PERSONAL PROJECTS

[BrainrotGPT](#) | *React, TypeScript*

Mar 2025 - Aug 2025

- Built a real-time AI web app in React and TypeScript with streaming responses via Vercel AI SDK, enabling fluid voice and text conversations through Whisper, GPT-4, and ElevenLabs TTS integration
- Selected by an international professor for co-authoring a research study

[Moodboard](#) | *Python, TypeScript*

Aug 2025 - Present

- Full-stack web app that turns a user's mood into curated daily recommendations – music, visuals, style, coffee
- Built with Python/FastAPI and React/TypeScript, providing a REST interface and a responsive, modern UI
- Integrated OpenAI APIs to generate personalized recommendations and images

[Pokerdex](#) | *Next.js, TypeScript*

Feb 2026 – Apr 2026

- Built a responsive poker buy-in tracker with Next.js and TypeScript, enabling real-time tracking of player buy-ins and total pot calculations
- Designed reusable React components and deployed the application on Vercel for seamless web access

TECHNICAL SKILLS

- **Languages:** Python, Java, C++, JavaScript/TypeScript, C#, HTML/CSS, SQL, Lua
- **Frameworks/Libraries:** React, SwiftUI, Django, [Node.js](#), Firebase, Zustand
- **Database:** PostgreSQL, MongoDB, Firebase, MySQL
- **Tools:** Git, Xcode, Unity, Vercel AI SDK, OpenAI APIs