JUAN PALACIO

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EDUCATION

May 2028	University of California Los Angeles, B.S. Computer Science	Los Angeles,CA

EXPERIENCE

Founding Full Stack AI Engineer — Miami, FL
Hakim AI — *Apr 2025 - Present*

- Engineered a voice-enabled application using the google Gemini 2.0 multimodal live API and pcm16 streaming over Websockets and Audioworklets, achieving 250 ms of latency.
- Developed a next.js react typescript front end with protected routes, a chat interface, voice controls, and a waveform visualizer, reducing errors by 40%.
- Created a python microservice for live API orchestration and secure token proxy, maintaining 99%+ stability under high concurrency.
- Built Django rest backend with PostgreSQL for authentication, profiles, referrals, rewards, and payment logging, storing 15gb+ of structured data.
- Deployed docker images to google cloud run and cloud SQL with health checks, ci pipelines, and structured logging, reducing backend latency by 30%.

Software Engineering Intern — Miami, FL
BusyBee — *Jan 2025 – March 2025*

- Built a swift task manager with CRUD, Boolean branching, and sub-tasking, delivering 12+ features and outperforming 95% of apple app store productivity apps.
- migrated the go backend to python (Fast API) with Websockets, enabling real-time updates for 10,000,+ devices and improving team efficiency by 40%.
- designed a mono-repo architecture integrating go, PostgreSQL, and an iOS frontend, reducing deployment failures and speeding up releases by 10×.
- implemented RabbitMQ for real-time messaging, reducing API latency by 40%, and maintaining 99.99% uptime under high concurrency.
- deployed ci/cd pipelines with docker and Kubernetes, increasing deployment speed by 60%, and ensuring environment consistency.

AI Researcher — Miami, FL
Miami-Dade College — *Jan 2023 – Dec 2024*

- Created Finn AI utilizing python and the ChatGPT API to provide precise information to more than 50,000 students, cutting the average query response time by 60%.
- Enhanced GPT response generation, boosting system speed by 75%, and raising user engagement by 40%.
- Composed a research paper analyzing five leading ai education tools, which are currently under review for conference presentation and publication.
- Developed backend infrastructure with the go and gin framework, adding the OpenAI gpt-4 API and PostgreSQL to handle over 100,000 daily queries, with 99.9% uptime.
- Investigated ai algorithms to improve academic content ranking accuracy by 30% through verified sources.

PROJECTS

Founder — Miami, FL
Revolution Social Media — *Jan 2024 – Present*

- Architected and built a progressive Twitter-inspired social media app using SwiftUI, focusing on minimalist design and user-friendly navigation
- Implemented core features, including tweet creation, user timelines, and a responsive UI optimized for iOS, developing user authentication, and API support to enhance interactivity and real-time content delivery
- Engineering a moderation-aware ranking system using Firebase, Redis, and the OpenAI Moderation API, developing an admin panel in React Native and React to promote experts and suppress identity-based harassment in real time
- Programming an algorithm to promote consistent, evidence-based content from academics and expert officials while limiting the visibility of users who engage in identity-based harassment unless legally or ethically justified

SKILLSET

- Python, Go, Java, JavaScript, TypeScript, Swift, HTML, CSS, C++, PHP, C#
- React, Spring Boot, Laravel, Flask, GraphQL
- AWS, Azure, GCP, Docker, Kubernetes, CI/CD
- SQL, Supabase (PostgreSQL), MongoDB, Firebase, JU nit, Jest, PyTest, Selenium
- Git, GitHub, Vim, Cursor, Jira, ChatGPT, Claude Code