

GIANNI VILAYHANE

SENIOR SOFTWARE ENGINEER

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PROFILE

I build fullstack solutions that help businesses across industries launch products faster, scale reliably, and reduce operational risk. My work spans AI and automation platforms, custom web applications, system integrations, and cloud infrastructure, always with a focus on solving the underlying business problem, not just the technical one. I work mainly in Node.js, Python, PHP, and TypeScript.

I treat design assumptions as hypotheses, define what would prove them wrong, and preserve enough evidence to reproduce the result.

CORE SKILLS

Languages – Python, TypeScript, Node.js

Web – React, Next.js

Machine Learning – Llama.cpp, Hugging Face, PyTorch

Infrastructure – Docker, Linux, Systemd, Libp2p

EXPERIENCE

Fullstack Engineer

Eden Labs — Topeka, KS

Sep 2024 – May 2026

- Developed and maintained the Eden web platform serving over 10000 active users monthly, improving page load performance by 15% through code optimization and caching strategies.
- Built Flux Trainer to streamline AI training workflows, managing datasets of 1TB and reducing model training cycles by 20 - 30%.
- Automated release management and CI/CD pipelines using the releases repo, cutting manual deployment errors by over 50% and increasing release frequency from monthly to weekly.
- Refactored core modules, reducing runtime and resource usage by approximately 1520%, improving maintainability and accelerating feature delivery.
- Collaborated with a remote cross-functional team of five engineers, successfully delivering multiple product milestones on time.

Software Engineer

Investment Training and Consulting Institute, Inc. — Topeka, KS

May 2024 – Nov 2025

- Integrated foreign payment systems via API, increasing the conversion of foreign sales by 11% overall.
- Refactored the search, with the transfer of the entire project to php8, reducing the development time of new functionality by 4%, thanks to the improved code structure.
- Covered the order functionality with tests, reducing the occurrence of new errors in the development of this functionality by 8%.

Fullstack Engineer

Air AI — San Francisco, CA

Mar 2022 – Feb 2024

- Designed and shipped a TypeScript-based CLI adopted by the onboarding team to automate customer setup, eliminating hundreds of hours of manual work per quarter.
- Maintained the production MongoDB database.
- Responsible for onboarding hundreds of new clients per month and resolving client tickets.

Software Engineer

Interlinked — Mexico City, Mexico

Feb 2021 – Mar 2022

- Designed RESTful APIs with versioning and normalized database schemas; built JWT authentication system with access tokens, refresh tokens, and session management.
- Implemented real-time WebSocket chat using Socket with message queues, typing indicators, read receipts, and online presence tracking.
- Built React/TypeScript frontend with Tailwind CSS component library; optimized performance with code-splitting, reducing bundle size by 30%.

Fullstack Developer

SISU Technologies — Mexico City, Mexico

Nov 2019 – Jan 2021

- Contributed to three significant web projects with blockchain solutions.
- Designed more user-friendly user interfaces and structured the pages for SEO.
- Analyzed the structure of the code and introduced several layers of abstractions to make it easier to reason about, emphasizing reusability and scalability.

SELECTED PROJECTS

Eden — Public - Active

A multi-modal generative AI platform for creating and orchestrating image, video, and audio content with agentic AI workflows

TRC — Public - Active

Bidirectional Laravel middleware syncing law-firm case systems (Litify/Salesforce, Filevine) with Zendesk

Keepcoming — Complete - prototype

A multi-tenant loyalty platform issuing live Apple Wallet & Google Wallet cards

RESEARCH

Independent research — Completed + active programs

Independent research into temporal representation, memory, abstraction, and learning from experience. The work keeps its evidence, failed branches, and limits attached.

Idgr · Python · NumPy · SciPy · PyTorch · Jupyter · Reproducible evaluation

EDUCATION

Bachelor of Science in Computer Science

Georgia Gwinnett College — Lawrenceville, GA