

Anthony Esmeralda

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Work Experience

Housecall Pro

Staff Software Engineer

Mar 1, 2026 – Present

- Architected a shared AI context layer that aggregates and serves customer and business context to autonomous outreach and sales copilot agents through APIs and MCP tools, providing a reusable foundation for context-aware AI workflows.
- Designed and served as technical owner of a scalable data import queueing system supporting strategic partners, driving architecture across concurrency controls, failure recovery, processing workflows, and operational visibility while coordinating with multiple engineering and business teams.
- Architected distributed data import deletion workflows using Sidekiq batches, reducing execution time by 50% while improving failure recovery and observability and reducing timeout and shutdown risks across Kubernetes workers.

Senior Software Engineer

Nov 1, 2023 – Mar 1, 2026

- Designed and maintained an internal Rails Engine that standardized authentication and authorization across new and existing applications, leveraging Okta to reduce duplicated implementation and improve access control consistency.
- Designed Kafka-driven customer journey workflows using event streams and state machines, enabling frontline teams to accurately interpret customer activity, improve subscription retention, and proactively support failed billing resolution.
- Designed and implemented Model Context Protocol (MCP) tools for the internal Content Management platform, enabling AI agents to securely query, analyze, and operate on enterprise content through well-defined schemas and permissions.
- Built a full-stack Content Management Tool (Digital Asset Management platform) using Ruby on Rails + Hotwire, enabling centralized storage and delivery of enterprise content with advanced search, metadata management, role-based access control, versioning, and Amazon CloudFront-backed distribution for images, videos, and documents.

Software Engineer

Jan 26, 2022 – Nov 1, 2023

- Reduced onboarding friction by implementing Okta SSO and SCIM provisioning for internal admin systems, automating account creation for 100–120 new employees monthly

Pacific Life via Tata Consultancy Services

Application Support Developer

December 07, 2020 – Jan 18, 2022

- Supported thousands of production and staging Linux and Windows servers while developing Python/Selenium automation to improve application reliability and production issue detection.

Education

University of California, Irvine

Bachelor of Science, Computer Science

Skills

- **Languages:** Ruby, JavaScript, Go, TypeScript, Bash, C++, Java, Python
- **Frameworks and Libraries:** Rails, Hotwire, Gin, ExpressJS, ReactJS, VueJS, StimulusJS, Sidekiq
- **Technologies:** Docker, Kubernetes, AWS, Git, MySQL, PostgreSQL, Redis, Datadog, Kafka, NodeJS