Aaron Figueroa

Full-Stack AI Engineer

Figueroa.Aaron@gmail.com | linkedin.com/in/aaron-luis-figueroa | github.com/Louiefigz | aaron-figueroa.pages.dev | Dallas/Frisco, TX

SUMMARY

Full-stack AI engineer with 8+ years of production enterprise engineering at J.P. Morgan Chase, now lead engineer at getDropin.io. I build AI agents and RAG, and the whole product around them, from front end to cloud. Model output passes validation, independent review and approval before anything ships.

SKILLS

AI: Claude and OpenAI APIs, AI agents and orchestration, MCP, RAG (Qdrant, pgvector, Pinecone), evals, guardrails, prompt caching, Whisper

Languages & Frameworks: TypeScript, Python, SQL, React, Next.js, Node.js, Fastify, FastAPI, Django, Flask

Data & Cloud: PostgreSQL, Redis, DynamoDB, AWS (ECS Fargate, CDK, Lambda, SQS, multi-region), Terraform, Cloudflare, Docker, CI/CD

Media & Testing: ffmpeg, HyperFrames, Playwright, Pytest, Jest, Cypress

EXPERIENCE

getDropin.io · Remote

2026 – Present

Lead Engineer

- Lead engineering for **ButterCuts**, an AI video editor that turns one raw recording into a long-form video and Shorts: transcription, AI-written edit plans, automated review, rendering and QC, with jobs that resume from the last verified step after a crash.
- Designed the review gates that keep AI output trustworthy: code checks run before AI critics, fresh critics review the plan and the render, and approvals are bound to content hashes. A 70-second checker caught all 7 material issues that had cost about 1 h 40 min of critic rounds.
- Run the build as a tiered agent team (Haiku, Sonnet, Opus, Fable, Codex): the cheapest model per job, two independent reviews per engine change, and a ledger of builder model, verdicts and real-footage results.
- Built **DropIn** solo, a multi-tenant SaaS that publishes video to YouTube, Instagram, Facebook, LinkedIn and TikTok: Next.js 16, Fastify 5, PostgreSQL, Redis and BullMQ, Cloudflare R2 and 8 AWS CDK stacks, with migrations run in a Fargate task before each deploy.
- Set the engineering standard: 2,300+ automated test files and 220+ postmortem-style write-ups that turn each production failure into a documented rule and regression test.

J.P. Morgan Chase · Dallas, TX

Jul 2017 – Aug 2026

Associate, UI Developer (2024–2026) · Dev Lead, Data Analytics (2022–2024) · Senior Associate, UI Developer (2017–2022)

- As Dev Lead, built a greenfield data analytics platform with React and Django, owning every technical decision from stack selection to production; chose a stack that cut the initial delivery timeline by an estimated 30%.
- Delivered sub-second responses across 500K+ records and built Active Directory authentication with organization-wide role-based access.
- Led a multi-region AWS recovery plan after intermittent customer-facing outages; first on the team to adopt AWS Application Recovery Controller, taking it from dev to production.
- Drove adoption of agentic AI workflows across internal development and operations, and led React Micro Frontend work for chase.com, including a migration that cut bundle sizes and load times.
- Built production features for chase.com, one of the highest-traffic banking sites in the U.S.; served as the main technical liaison between engineering and product and mentored junior developers through 3 proprietary framework transitions.
- Joined through a Cognizant engagement and was hired directly by J.P. Morgan Chase within 5 months.

PROJECTS

Personal RAG Coach · AI strategist for brands

2026

- Turns trusted expert material into a coach that knows a brand's business and writes ready-to-record scripts. FastAPI agent loop on Opus 4.8 over about 50 tools; hybrid retrieval in Qdrant at hit@5 0.909; script time cut from 786 s to 86–105 s.

EDUCATION

B.A. in Theater and Film Production · Brooklyn College, Brooklyn, NY 2024

Full Stack Web Development Certification · Flatiron School, New York, NY 2016