

Doug Morgen

Senior Software Engineer / Former Founder

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Senior software engineer and former founder with deep product and customer focus, strong systems architecture experience, and a proven track record building financial, B2B, B2C, e-commerce and high-volume transactional systems. Strong backend, systems, and frontend depth with Ruby/Rails, TypeScript, Node.js, React, Python, and PostgreSQL. Hands-on across billing, reconciliation, background processing, third-party API integrations, and production infrastructure.

PROFESSIONAL EXPERIENCE

Founding Engineer / CTO · Arrafund

June 2024 - Present

- Founded and built a global, multi-currency creator monetization platform using Rails 8, PostgreSQL, Redis, Turbo/Stimulus, and Tailwind; owned architecture, backend, frontend, infrastructure, security, payments, analytics, and integrations.
- Built and secured approval for a Plaid integration to ingest transaction data and identify eligible purchases
- Implemented a multi-currency Wise payment integration with OAuth, webhooks, encrypted credential storage, idempotent processing, and payment workflows.
- Built and deployed an approved Shopify application using Next.js, TypeScript, and PostgreSQL for affiliate attribution, order lifecycle events, and real-time commission tracking.

Founding Engineer / CTO · Homebrand

March 2026 - July 2026

- Built and deployed an AI-native home-operations platform using Rails 8, PostgreSQL, Redis/Sidekiq, Active Storage/S3, Turbo/Stimulus, extraction/answering, and OpenAI transcription.
- Built multimodal ingestion for OCR, document classification, structured extraction, receipts/manuals/warranties/policies, audio/video transcription, evidence indexing, and background-job orchestration.
- Created an evidence-grounded AI assistant retrieving from uploaded documents, property records, materials, maintenance logs, contractors, and utilities to answer homeowner questions.
- Designed property-scoped authorization and multi-tenant workflows including owner/teammate roles, invitations, document access, maintenance records, and administrative controls.

Senior Full-Stack Engineer · BrightGo

Apr 2025 - Jan 2026

- Architected a hybrid ERP accounting and operations platform integrating legacy ERP data with Ruby on Rails/PostgreSQL, React + Chakra UI, and a third party ledger API for building service contractor companies managing 500+ cleaners and \$20M+ in annual revenue.
- Designed and built job-costed payroll with per-job labor tracking, real-time cost attribution, and a payroll-to-ledger pipeline
- Increased financial-import throughput approximately 10x by introducing ledger transaction batching while preserving idempotency, unique external IDs, and double-entry validation.
- Mentored two junior engineers in Rails.
- Designed and implemented a canonical authorization system that replaced fragmented, override-based permissions with centralized Rails policies and React gating while maintaining sub-50ms authorization checks.
- Built server-side filtering, sorting, and pagination for React data grids backed by Rails/PostgreSQL, using SWR for client-side caching and revalidation and built efficient paginated API responses.
- Designed background-job orchestration for imports, payroll, reporting synchronization, and reconciliation.
- Modernized the React Native mobile application to support complex schedule editing, multi-shift workflows, and real-time validation for field teams.

Senior Software Engineer · EasyPost (YC 2013)

Oct 2019 - Nov 2023

- Led architecture for mission-critical billing and transaction systems supporting a logistics platform handling approximately \$8B in shipping volume across UPS, FedEx, DHL, and other carriers.
- Owned and extended EasyPost's transaction and delta-billing platform, including reusable carrier-invoice processing for continuously changing invoices.
- Redesigned Rails billing architecture to integrate with Python carrier-invoice services while preserving correctness across downstream adjustments and reconciliation.
- Developed high-throughput services, optimized MySQL database partitions, and migrated 15 services from a Rails monolith to Python/Flask microservices.
- Designed and launched a QR-code endpoint generating 100K UPS return labels per day.
- Led development of billing for in-house default UPS accounts for all EasyPost customers handling approximately \$15M in annual shipping volume.

Founder, Owner & CTO · Cellular Country

July 2005 – Dec 2018

- Founded and scaled a \$5M/year ecommerce business and built the entire software platform end to end, including inventory, fulfillment, accounting, CRM, pricing, marketplace integrations, internal tools, and production DevOps.

- Built automation across inventory, purchasing, pricing, warehouse operations, and reverse logistics, including workflows processing approximately 100 smartphones/day and real-time inventory synchronization across the company website, eBay, and Amazon.
- Designed dynamic pricing, barcode/IMEI tracking, fraud detection, shipping, pick/pack, and warehouse automation while operating bare-metal Linux infrastructure at 99.9% uptime.
- Built an automated auction-bidding system that analyzed vendor spreadsheets with roughly 30,000 line items to acquire the correct inventory mix the business needed each week.
- Increased conversions 10-30% through A/B and multivariate testing, grew organic traffic to approximately 5,000 users/day, and led engineers and designers while managing a 10-person operations team.

SELECTED PROJECTS

TypeScript Financial Application · finance.dougmorgan.com — Built and deployed a TypeScript/React/PostgreSQL application for secure, encrypted account-scoped storage and retrieval of tax and financial records.

Full-Stack TypeScript Application · node.dougmorgan.com — Built and deployed a Bun/Effect/React/PostgreSQL application with typed APIs, OAuth, rate limiting, Docker/Kamal deployment, and automated database migrations.

EDUCATION

M.S. Mechanical Engineering, University of California, San Diego

B.S. Engineering Science & Mechanics, Virginia Tech