

DUSTIN STEWART

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ABOUT

Experienced senior engineer with 8+ years building production systems 0-1 across AWS, Azure, and GCP. Currently doing founding-level fullstack work for early-stage startups, after leading fullstack engineering for the LA Galaxy and Fortune 500 enterprise clients at 55. Equally at home designing APIs, shipping customer facing apps, and standing up the CI/CD infrastructure behind them.

PROFESSIONAL EXPERIENCE

Lead Software Engineer | Lightward | Jan 2026 – Present

- Architected and built the production backend platform on AWS — a distributed system spanning FastAPI services on ECS, asynchronous Lambda, DynamoDB, OAuth identity, and EventBridge orchestration — with KMS envelope encryption, JWT auth, role-based access control, comprehensive audit logging, and full Terraform managed infrastructure
- Architected a centralized AI gateway for public and internal LLM usage (Claude, OpenAI, Llama) with full pipeline audit trail, tier-based action authorization, per-user rate limiting, input sanitization with prompt-injection blocking
- Designed a consent-driven permission model with granular, tiered data visibility, balancing transparency with privacy across multi-user household relationships
- Built an in-house observability dashboard backed by DynamoDB, with a live activity feed and rule-based alerts that link into filtered investigation views for security incident response
- Engineered a multi-signal threat detection pipeline for inbound email, integrating third-party security APIs, protocol verification, and pattern analysis

Senior Fullstack Engineer | The Los Angeles Galaxy | Feb 2025 – Jan 2026 (1 year)

- Built the first in-house Transfer Analytics Platform — a React + FastAPI + Databricks + Redis application serving real-time scouting intelligence to the GM and coaching staff; designed Python backend services handling data aggregation, security, caching, and API orchestration
- Developed 5+ internal full-stack applications using a mixed stack (Node, FastAPI, Docker, OAuth flows, Static Apps, Claude Test Automation, etc.)
- Engineered high-performance CRM tools with OAuth 2.0 authentication, enabling bulk operations and large-scale data management; achieved 1,000× performance improvements and adoption across AEG entities
- Established API standards (OpenAPI documentation, semantic versioning, contract testing) and performance patterns that reduced latency and cloud costs across all data-backed applications
- Introduced and led AEG Sports' first CI/CD and DevOps practices — implemented Azure DevOps pipelines, containerized Docker deployments, and infrastructure-as-code templization
- As a founding engineer for AEG Sports, implemented two enterprise Databricks warehouses (soccer operations and ticketing) from the ground up, establishing a medallion architecture; engineered DLT pipelines for high-volume data transformations using PySpark; deployed Unity Catalog for metadata management, access controls, and data lineage
- Developed a player valuation ML model using XGBoost with parallel Spark processing; managed experiment tracking and model versioning with MLflow
- Introduced AI-native development workflows including MCP integrations, security standards, and AI-assisted testing frameworks and deployment
- Designed and implemented a custom Data Catalog with full entity mapping — a first for AEG

Lead Engineer, Senior ML Engineer | 55: The Data Company | Jul 2021 – Jul 2024 (3 years)

- Built a React application for Large Language Model (LLM) experimentation enabling clients to upload data, configure prompts, and chain together API calls across multiple models (OpenAI, Claude, Gemini); implemented the Python backend handling file processing and API orchestration
- Owned production infrastructure across US clients: containerized deployments (Docker, Kubernetes), IaC (Terraform, CloudFormation), CI/CD pipelines, monitoring/alerting systems
- Led architecture and delivery of data platforms across AWS/GCP, including implementation of Snowflake, BigQuery, Redshift warehouses across domains like finance, marketing, and supply chain; these projects led to an 89% increase in cloud services revenue
- Built end-to-end ELT pipelines from ingestion through ML-ready datasets using Databricks, Snowflake, BigQuery, Kafka, Airflow; implemented Great Expectations for data quality monitoring
- Designed and built feature pipelines and model serving infrastructure for production ML systems on Vertex AI and Kubeflow; migrated experimental workflows into production-grade pipelines with proper monitoring and testing
- Built reusable dbt transformation layers supporting high-volume analytics and ML workloads
- Built integrations with Google Marketing Platform, Amazon Marketing Platform, CRMs, CDPs, and clean rooms (Disney/Hulu) for privacy-compliant audience measurement
- Managed two engineers in building durable platform architecture

Machine Learning & Analytics Consultant | Self Employed | Jun 2017 – July 2021

- Built and maintained analytics pipelines and automated workflows using Python and SQL
- Implemented marketing attribution models and reporting automation
- Advised on ML model prioritization and feature engineering needs to maximize client KPIs

Intern | Warner Music Group | 2016 – 2017

- Supported frontend development, data collection, API integrations, and performance analysis for large-scale digital campaigns and assets for global artists like Dua Lipa and Gorillaz

TECHNICAL SKILLS

Backend & APIs: Python, FastAPI, Flask, Node.js, REST API Design, OpenAPI/Swagger, Versioning, OAuth 2.0/JWT, Microservices

Frontend: React, Next.js, TypeScript, JavaScript, State Management, Responsive Design

Cloud & Infrastructure: AWS, Azure, GCP, Docker, Kubernetes, Terraform, Serverless (Lambda, Cloud Functions, ECS, Azure Container Apps), CI/CD (Azure DevOps, GitHub Actions, Jenkins)

Data Engineering: SQL, Apache Spark, Databricks, Snowflake, dbt, Airflow, Kafka, ELT, Streaming & Batch Pipelines, Medallion Architecture, Data Quality, Schema Enforcement

Testing & Quality: pytest, Jest, Integration Testing, Contract Testing, Great Expectations

AI/ML Integration: OpenAI, Claude, Gemini, Vertex AI, Bedrock, LangChain, MCP, Agentic Workflows

EDUCATION

University of Southern California — Los Angeles, CA
Bachelor of Science (B.S.), Data Analytics — 2018

CERTIFICATIONS

AWS Professional Certified Solutions Architect
 GCP Professional Data Engineer