



Jesse Lucas

Senior Full Stack Engineer | Software Architect | AI/ML Engineer |
Blockchain & Distributed Systems Engineer

San Francisco Bay Area, California

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PROFESSIONAL SUMMARY

Senior Full Stack Engineer with 12+ years of experience designing, building, deploying, and modernizing web applications, distributed systems, AI/ML platforms, blockchain infrastructure, cloud platforms, and developer workflows.

Experienced across frontend engineering, backend services, API architecture, AI infrastructure, machine learning systems, smart contracts, CI/CD, container orchestration, distributed systems, and technical leadership.

TECHNOLOGY SNAPSHOT

FULL STACK	AI / ML	PLATFORM	BLOCKCHAIN
React	Python	AWS	Solidity
Next.js	PyTorch	Docker	Ethereum
TypeScript	TensorFlow	Kubernetes	Rust
Node.js	RAG	PostgreSQL	Go

CORE COMPETENCIES

Full Stack Architecture	AI/ML Infrastructure	API Design	Large Language Models
RAG Systems	MLOps	Distributed Systems	Blockchain Engineering
DevOps / CI/CD	Cloud Infrastructure	Microservices	Security

PROFESSIONAL EXPERIENCE

Senior AI/ML Engineer

Fused Gaming, LLC

Aug 2024 – Present

- Architected production-grade AI/ML infrastructure supporting 50K+ concurrent API requests with sub-100ms latency.
- Designed RAG pipelines using LangChain, vector embeddings, and distributed semantic search with 92% relevance accuracy.
- Built multi-provider LLM integration layers and reduced inference costs by 35% through routing and fallback optimization.
- Engineered vector search across 10M+ embeddings with sub-50ms latency.
- Implemented MLOps automation supporting safe weekly model updates with zero production incidents.

TECH STACK

Python FastAPI LangChain PyTorch RAG AWS Docker Kubernetes PostgreSQL MLflow

Senior Full Stack Engineer — Blockchain

Dtravel

Jan 2020 – May 2024

- Architected decentralized application infrastructure supporting a DeFi product reaching \$5M AUM within three months.
- Improved blockchain transaction throughput by 40%.
- Built multi-signature wallet architecture supporting stronger transaction security.
- Developed React/Web3 applications and Ethereum workflows.

TECH STACK

React Next.js TypeScript Solidity Ethereum Rust Go Web3 AWS PostgreSQL

Feb 2016 – Nov 2019

Full Stack Developer

Blue Apron

- Improved data retrieval performance by 40% through Angular and backend service integration.
- Helped migrate legacy systems toward microservices architecture.
- Reduced system downtime by 30% through backend modernization and containerized deployment practices.
- Accelerated releases by 75% through Jenkins and Git-based CI/CD.
- Reduced deployment-related errors by 90%.

TECH STACK

Angular Java MongoDB GraphQL Docker Kubernetes Jenkins Azure Prometheus Grafana

Frontend Engineer

Mar 2012 – Dec 2015

Anmel

- Built and maintained web applications using React, JavaScript, HTML, SASS, and SCSS.
- Developed routed single-page experiences and reusable components.
- Improved code efficiency by 20% through shared frontend services.
- Supported CI/CD automation with Jenkins and AWS infrastructure.

TECH STACK

React JavaScript HTML5 CSS3 SCSS Bootstrap Jenkins AWS

SELECTED ENGINEERING IMPACT

 AI/ML Infrastructure	92% relevance accuracy in RAG pipelines	 ML Deployment	Weekly updates with zero production incidents
 LLM Optimization	35% reduction in inference costs	 Blockchain Growth	\$5M AUM within three months
 Model Performance	28% improvement in task-specific accuracy	 Transaction Throughput	40% improvement
 Vector Search	Sub-50ms queries across 10M+ embeddings	 Release Engineering	75% faster release cycles
 API Performance	50K+ concurrent requests under 100ms	 Deployment Quality	90% fewer deployment-related errors

EDUCATION

Bachelor's Degree — Information System Security

ITT Technical Institute | Sep 2012 – Dec 2014 | GPA 3.44

Bachelor's Degree — Computer Science

ITT Technical Institute | Sep 2007 – Dec 2011 | GPA 3.71

MILITARY EXPERIENCE

Information Systems Analyst

2007 – 2011

California Army National Guard

- Supported military information systems and technical operations.
- Assisted with systems analysis, troubleshooting, user support, and maintenance of IT environments.
- Worked within structured operational, security, and accountability requirements.
- Supported mission-focused technology workflows and communications infrastructure.

ADDITIONAL

Location:	San Francisco / Oakland, California
Work Authorization:	Not Required
Availability:	Available Now
Preferred Roles:	Senior Full Stack Engineer Staff Engineer AI/ML Engineer Software Architect Platform Engineer Blockchain Engineer Engineering Lead MLOps Engineer

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