

Shravanth Venkatesh

Cloud Solutions Architect | AWS + AI/ML | Healthcare & Regulated Industries

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SUMMARY

Cloud Solutions Architect with 8+ years designing and delivering AWS platforms in healthcare and regulated industries. Lead cross-functional stakeholders from pre-sales through production across serverless, event-driven, and AI/ML workloads (Bedrock, RAG, Agentic pipelines). Proven track record architecting cloud migrations at enterprise scale, establishing governance for 600+ applications, and translating business requirements into production architectures that meet HIPAA and HITRUST.

SPEAKING & RECOGNITION

- **GraphQLConf 2026 Speaker** (May 2026). Co-presenting with Harpreet Siddhu on GraphQL performance and cost patterns in production serverless architectures.
- **AWS Community Day Bay Area 2026** (Security Edition, April 2026). Volunteer lead managing the keynote segment at the Computer History Museum.

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate
- AWS Bedrock AgentCore – Building at Scale (2026)
- SnapLogic AI Agent Builder
- Certified Ethical Hacker (CEH)

TECHNICAL SKILLS

Cloud & Architecture: AWS (Lambda, ECS, Step Functions, EventBridge, API Gateway, DynamoDB, Aurora, S3, CloudFront, VPC, IAM, WAF, CDK, CodePipeline), Terraform, Serverless & Event-Driven Architecture, Multi-Tenant SaaS, Disaster Recovery

AI / ML: AWS Bedrock (Claude, Nova, Titan), Bedrock AgentCore, Strands SDK, Knowledge Bases, RAG pipelines, OpenSearch Serverless, S3 Vectors, FAISS, MCP (HTTP+SSE), Amazon Transcribe, Function Calling, Prompt Engineering

Integration & Data: GraphQL, REST, gRPC, SnapLogic, Kafka, EventBridge, SQS/SNS, Firehose

Engineering: Python, TypeScript, Node.js, React.js, Distributed Systems, CI/CD (CodePipeline, Jenkins), Observability (Dynatrace, New Relic, Sumo Logic)

Compliance: HIPAA, HITRUST, WCAG, PHI/PII handling

FLAGSHIP AI PROJECT

Aura Learning Studio – Agentic AI Accessibility Platform | studio.auralearner.com

AWS Bedrock (Nova) • Lambda • OpenSearch Serverless • S3 Vectors • DynamoDB • Cognito • Terraform • React + TypeScript

- Designed and shipped a production multi-tenant agentic AI platform on a fully serverless AWS stack, eliminating idle compute and enabling elastic scale with zero capacity planning for a solo-operator team.
- Built a RAG pipeline that converts multi-modal content (audio, text, documents) into dyslexia-friendly flashcards in under 30 seconds end-to-end for synchronous flows.
- Enforced tenant data isolation and WCAG 2.1 AA compliance across all layers, positioning the platform for adoption in regulated education and healthcare settings.

PROFESSIONAL EXPERIENCE

Cloud Solutions Architect / Principal Software Engineer | Prime Therapeutics (Remote) *May 2023 – Apr 2026*

- Led a team of 8 engineers on the FirstRx platform, partnering with product, compliance, and client stakeholders from pre-sales scoping through production handoff.
- Architected the migration of 6 applications from Magellan Rx to Prime Therapeutics on AWS, standardizing on serverless and container patterns across the estate.
- Established cloud governance, reference architectures, and migration runbooks adopted by 60+ teams across 600+ applications, cutting application buildout time by 60%.
- Led enterprise observability migration from Sumo Logic and New Relic to Dynatrace, aligning monitoring standards to HIPAA and HITRUST controls for PHI and PII workloads.
- Re-architected business-critical services onto event-driven patterns (EventBridge, Step Functions, SQS), achieving 99.999% uptime on core flows.
- Designed multi-region disaster recovery strategies across core services, meeting RTO/RPO targets for regulated workloads.

Principal Software Engineer | Prime Therapeutics *Feb 2022 – May 2023*

- Subject Matter Expert for the `medi-calrx.dhcs.ca.gov` member portal serving 35M+ Medi-Cal beneficiaries, owning architecture decisions in a client-facing post-sales role.
- Led CI/CD modernization from Jenkins to AWS CodePipeline across 250 projects, standardizing build and deployment patterns across the organization.
- Improved portal performance by 90% (Largest Contentful Paint) and rolled out localization in 115 languages to meet state accessibility mandates.
- Technical lead and code reviewer for 6 engineers across frontend and backend workstreams.

Consulting Software Engineer | Magellan Rx, Tampa, FL *Jul 2020 – Feb 2022*

- Architected and delivered React.js web applications serving 60M+ pharmacy benefit members.
- Designed a cost-optimized AWS architecture for React SPAs (CloudFront, S3, Lambda@Edge), materially reducing monthly run-rate versus prior on-prem hosting.
- Migrated legacy on-prem web properties to AWS, improving page load performance by 85%.

Founding Full-Stack Engineer | IOTsquare Software & Tech (Remote) *Jun 2018 – Jan 2020*

- Founding engineer on an early-stage healthcare product, taking the platform from zero to one across backend services, APIs, and frontend.

React.js Developer | Cartoon Mango, Bengaluru, India *Feb 2018 – Jun 2018*

- Led a team of 5 engineers building LEAP, a client-facing frontend application for Mahindra Comviva.

EDUCATION

M.S. Computer Science, University of Central Florida — 2020

B.E. Computer Science, Bangalore Institute of Technology — 2018