

Job Description — Solutions Architect

Company: ZetaMinusOne LLC

Role: Solutions Architect

Type: Contract / Full-Time (~40 hrs/wk)

Rate: \$130/hr

Location: Remote

Engagement Duration: ~14 weeks (with potential for extension)

About the Engagement

ZetaMinusOne is a technology services firm specializing in AI-powered enterprise platforms. We are seeking a Solutions Architect to join the delivery team on a high-impact engagement building a production-grade Revenue Cycle Management (RCM) platform for a healthcare AI company. The platform automates four core billing workflows (Verification, Claim Prep, Payment Posting, and Denials) and is targeting production deployment on AWS for a PE-backed roll-up of 37+ medical practices.

The platform has already demonstrated ~95% accuracy against manual billing teams in shadow mode. Your job is to help take it the rest of the way: production-ready, observable, scalable, and fully handed off.

What You'll Do

Working alongside the Project Lead, you will own key technical workstreams across the entire engagement lifecycle:

Architecture & Infrastructure — Design and implement the production runtime on Amazon Bedrock AgentCore, including the session-isolated microVM model per practice run. Stand up the event-driven orchestration layer using EventBridge, Lambda, DynamoDB (operational state), and S3 with KMS (PHI artifact storage). Establish the AWS account controls baseline and the per-practice tenancy model.

Agent Migration & Integration — Migrate four AI agents from the OpenClaw prototype to AgentCore, preserving validated workflow logic. Configure the Browser Tool (sandboxed Chrome with replay support), Memory primitive (structured short/long-term), Identity primitive

(per-practice credential vault), and Gateway primitive (Availability API integrations via MCP with auth and rate limits). Maintain the deterministic-first execution pattern with Playwright scripts and a self-healing agent fallback.

Operator Web Console — Contribute to delivery of the AWS Amplify-based operator UI backed by AppSync GraphQL, Cognito authentication, and WAF. Ensure billing coordinators and practice operators can review agent output, approve or flag items, trigger write-backs, and export reports with full immutable audit logging.

Multi-Tenancy & Onboarding — Implement configuration-driven onboarding so that a new practice's credentials are injected into the per-practice vault, the configuration is registered, and agents pick it up on the next scheduled run — no new hardware required.

Payer-Rule Scraper — Implement the scheduled scraper that monitors payer portals for rule changes responsible for stale claim rejections.

CI/CD, Observability & Handover — Lead infrastructure-as-code setup, automated state recovery, and the GenAI observability surface. Close the engagement with architecture documentation, runbooks, observability dashboards, and role-specific training for the client team and practice operators.

Cost & Model Strategy — Implement the two-tier model routing strategy (Claude Opus 4.7 for reasoning, Claude Haiku for routine classification) to keep per-practice costs predictable and within contract value.

What We're Looking For

- 5+ years of hands-on AWS architecture and implementation experience, with production deployments
- Strong command of AWS managed services: Bedrock AgentCore (or equivalent LLM orchestration), EventBridge, Lambda, DynamoDB, S3, KMS, Amplify, AppSync/GraphQL, Cognito, WAF
- Experience with infrastructure-as-code (CDK, Terraform, or SAM) and CI/CD pipelines
- Background in multi-tenant SaaS architecture and credential/secret management at scale
- Familiarity with AI agent frameworks and LLM orchestration patterns (tool use, memory, browser automation)
- Exposure to healthcare data environments is a strong plus — comfort with PHI handling, audit trails, and HIPAA considerations
- Ability to work collaboratively in a fast-moving, founder-led environment with weekly stakeholder check-ins
- Strong documentation instincts — you leave systems better explained than you found them

Nice to Have

- Prior experience migrating AI prototypes to production (OpenClaw, LangChain, CrewAI, or similar to cloud-native runtimes)
- Playwright, Puppeteer, or browser automation experience
- Healthcare RCM, EHR integrations (ModMed, Availity, etc.)

Working Arrangements

- Remote; 40 hrs/wk
- Billed on Time & Materials; hours billed as incurred
- Reports to the ZetaMinusOne Project Lead; collaborates directly with the client's executive team
- Overtime (>40 hrs/wk) requires advance Project Lead approval