David Hale

Senior Software Engineer | Agentic AI & Backend Systems

Lebanon, TN (Remote) · Reach me on LinkedIn: linkedin.com/in/dmhalejr

Senior engineer with 10+ years building production software, including healthcare SaaS and clinical data platforms. Builds agentic workflows with Strands Agents and Amazon Bedrock, using retrieval-augmented generation (RAG) to ground model responses in healthcare data. Leads architecture, integrations, and delivery across distributed teams.

TECHNICAL SKILLS

Agentic AI: Strands Agents, Amazon Bedrock (model invocation, Knowledge Bases), RAG, Prompt engineering, Claude, Gemini, Ollama, Open-source LLMs

AI-assisted development: Codex, Cursor, GitHub Copilot

Backend and cloud: Node.js, TypeScript, Clojure, GraphQL, REST, PostgreSQL, ETL, AWS Lambda, S3, EKS, ECS, Docker, Terraform, CI/CD

Clinical integrations and frontend: FHIR, HL7, CDS Hooks, Enterprise APIs, React, Remix, Angular

EXPERIENCE

Aeroflow Health — Jan 2026 – Present
Senior Backend Engineer

- Build and orchestrate healthcare agents with Strands Agents and Amazon Bedrock. Use Bedrock Knowledge Bases for retrieval over structured healthcare data.
- Design prompts to surface actionable information from unstructured clinical data and integrate the workflows into operational backend services.

Care Access — Aug 2024 – Dec 2025
Senior Software Engineer

- Led 6+ engineers and contractors across Care Console, Member Portal, and Member Services Portal. Owned release schedules and delivery from design through production.
- Improved release cadence by roughly 25-50% by standardizing team routines and reducing rework through shorter feedback loops.

OneStudyTeam (Reify Health) — Feb 2022 – Aug 2024
Senior Software Engineer

- Shipped self-service user provisioning that increased site onboarding speed by 32%. Built a protocol designer for clinical research workflows and contributed to the launch of Site Financials.
- Developed TypeScript GraphQL code generation patterns adopted across multiple squads and mentored junior engineers.

Kanso Software (HDS Doorways) — Aug 2021 – Feb 2022
Senior Software Engineer

- Secured leadership support for an AngularJS-to-Angular migration and led the frontend team through implementation.

EvidenceCare — Feb 2020 – Sep 2021
Senior SDE / SDE II

- Designed HL7 FHIR and CDS Hooks integrations across 7-10 hospital systems. Built analytics to measure client ROI and feature flags to support staged enterprise rollouts.

Lonely Planet — Feb 2019 – Feb 2020
Software Developer in Test

- Built a shared test automation monorepo, a Python and Kibana migration dashboard, and Puppeteer and Lighthouse audit tooling.

EDUCATION

Trevecca Nazarene University | BS, Information Technology | 2006 – 2011