

Emmalie Cole

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Senior Software Engineer & Engineering Lead

Full-stack engineer leading a distributed engineering team at Endgame AI, a real-time chess platform on web, iOS and Android. Owns the mobile app end to end and builds across Flutter, Vue 3/TypeScript, and event-driven C#/.NET and Python services on AWS. Uses AI-assisted development as everyday infrastructure, with review and evaluation gates on every change. Former editor and technical writer: decisions get written down.

TECHNICAL SKILLS

Languages: TypeScript | Dart | Python | C# | JavaScript | SQL | HTML/CSS

Mobile & Frontend: Flutter | Vue 3 | React | Next.js | Capacitor | Vite | TailwindCSS

Backend & Data: ASP.NET Core | SignalR (WebSockets) | Kafka | FastAPI | Pydantic | Node.js | MongoDB (change streams) | PostgreSQL | REST APIs

Cloud & DevOps: AWS (ECS, Lambda, ECR) | GCP (Cloud Run, BigQuery, Firestore) | Cloudflare Workers | Docker | Terraform | GitHub Actions CI/CD | Playwright + Appium

AI engineering: Anthropic Claude API | Claude Code & Cursor | multi-agent workflows | evaluation & regression gates | MCP

PROFESSIONAL EXPERIENCE

Senior Software Engineer & Engineering Lead — Endgame AI

JAN 2026 – PRESENT

Chess-technology startup | Remote

- Lead a distributed engineering team: sprint planning, delivery cadence, code review on every PR, engineer onboarding, and UX/UI direction for web and mobile; now also building tooling and measurement for the growth team
- Own the **Endgame AI mobile app** end to end (**Flutter/Dart**, iOS + Android, live on the App Store and Google Play): architecture, real-time gameplay, Google and Apple sign-in, automated TestFlight/Play releases, Playwright + Appium UI automation, and crash monitoring
- Engineered live tournament broadcasting: **ASP.NET Core SignalR** WebSocket APIs backed by **MongoDB change streams**, fed by a multi-source, Pydantic-validated Python ingestion pipeline (Lichess API, DGT boards) on **AWS ECS + Lambda**
- Develop event-driven services on **Kafka** and the core game API (.NET, MongoDB) in a 40+ microservice architecture, including shared Kafka and chess move-generation libraries shipped as internal packages via GitHub Actions to AWS ECR
- Led a separate iOS mobile app demo presented to investors: designed its passwordless sign-in and skill-gaming payment flows (identity checks, deposits and withdrawals, state age rules, geolocation)
- Built the company's operations dashboard solo (**Next.js 14** on **GCP Cloud Run** behind IAP), used daily across the company and shared with investors: role-based access, analytics unifying GA4, MongoDB, Firebase and BigQuery, and anomaly alerting

Founder — knead.it

2025 – PRESENT

Cooking education project, in development | Personal

- Building voice-guided cooking lessons, a personal recipe library and a map of where recipes come from, from one **Next.js + Capacitor** codebase for web, iOS and Android on Neon Postgres and Cloudflare Workers
- Developed through an agentic workflow of specialized Claude agents with scoped roles and architecture decision records, with **Playwright + axe-core** accessibility and E2E checks gating every merge

Full-Stack Software Engineer Intern — SmallChess

MAR – OCT 2025

Chess-technology startup | Educational & analytical tools | Remote

- Developed full-stack features for a chess training platform using **React**, **TypeScript**, **Supabase** and Docker
- Designed backend services and database schema for dynamic lesson delivery, PGN parsing and a Stockfish-integrated analysis engine
- Built move-prediction logic and an adaptive lesson-progression system that personalizes learning paths by skill level

Writer and Editor — Freelance

2022 – 2025

PROJECTS

Sage (Strategic Adaptive Guidance Engine) — self-hosted personal AI assistant in development, running on a Raspberry Pi and a small cloud VM: morning and evening briefings, one focus board, and code reviews prepared by two AI vendors plus an independent fact-check before I approve them. Each job is kept only if its output changes what I do. Python, Claude API, Docker, PostgreSQL, Tailscale.

EDUCATION: BS, Computer Science (Software Engineering), Southern New Hampshire University, 2026