Graham Hough

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· https://github.com/HoughIO

SKILLS

- Expert in Linux environments; loves working from the terminal
- Well versed in the leading clouds (AWS and others)
- Automated deployments using Pulumi, Terraform, and cloud CDKs
- CI/CD implementations and automated testing frameworks
- QA-oriented development, TDD focused
- Experience with a variety of Git and version-management automation
- Clear, confident communication to clients and investors
- Always ready to learn and expand skills; spends free time creating fun and goofy side projects

EXPERIENCE

Hough Jewelers — New York — Founder (September 2026 – Present)

- Founded an AI-assisted 3D jewelry design platform (hough.jewelry): a customer describes a piece and a pipeline of agents writes the brief, models it in Blender, checks it and renders it while they watch
- Built each stage as its own FastAPI service behind one public gateway, with Pydantic AI agents, per-agent token and cost tracking, and a live run feed to the browser
- Every design keeps its model history in its own git repository; an independent inspector runs deterministic checks on each model (bore, wall thickness, manifold geometry, metal weight)
- Runs on AWS, deployed with CDK, with Blender in an isolated sandbox per run; React and three.js frontend, PostgreSQL, Stripe billing

Adaline — New York — Founder (March 2026 – Present)

- Founded an AI document-accessibility platform (adaline.ink) converting PDFs, Word docs, and LaTeX into ADA-compliant, Section 508-certified formats
- Built AI remediation for alt text, heading hierarchy, and reading order; WCAG 2.1 AA / PDF-UA compliance scoring; math-to-MathML conversion
- Runs on Python/Celery workers, Next.js frontends, PostgreSQL, and Redis
- Agentic AI Document Processing built on top of Pydantic AI with Connectors to any provider

Scala Computing — New York, NY — Head of DevOps (January 2021 – July 2025)

- Created a new product line — from conception and planning to architecture design and production deployment
- Architected a system of virtual machines to emulate networking equipment in a large-scale network topology targeting emulations of data-center-scale network traffic

- Managed a team of DevOps engineers, fullstack engineers, QA engineers, and external engineering teams
- Architected product-focused solutions enabling customers to securely access remote virtual machines with a unified user experience
- Created a cost-optimized platform for managing large-scale pools of EC2 bare-metal servers, with a focus on cloud multi-tenancy and security
- Troubleshot complex network topology issues in virtualized environments with traffic generators and open-source network switches. Working closely with the vendors themselves to streamline emulation configurations
- Strong focus on deployment-time improvements and clear insight into customer-facing environments

Knotel — New York, NY — Lead QA Engineer (January 2019 – December 2019)

- Managed a team of remote DevOps contractors building custom tooling to manage kubernetes deployments
- Built a custom CI/CD platform with bleeding-edge GitHub Actions for version management, image publishing, artifact publishing, linting, unit-test results, and Slack notifications across a 50+ microservice mono-repo
- Managed DevOps daily priorities and oversaw all data migrations and infrastructure changes
- Researched and developed new tools to improve quality of life for in-house and remote developers
- Tracked software vulnerabilities and updated microservices weekly
- Developed a system to run unit and integration tests on commit events, giving developers instant feedback
- Bridged the knowledge gap between DevOps and fullstack developers; kept documentation and onboarding docs up to date
- Migrated from a Vagrant-based development environment to Docker-based microservices, then to a Kubernetes stack with custom tooling to minimize developer setup

Xometry (formerly MakeTime) — Lexington, KY — Lead QA Software Engineer (2017 – 2019)

- Responsible for continuous deployments to multiple projects; reviewed all pull requests into the codebase
- Managed a remote team of manual software testers; reviewed QA efforts and provided feedback
- Responsible for release cutting, testing, feedback, and deployment scheduling; prepared documentation and deployment tasks for DevOps handoff
- Investigated, documented, and assessed critical issues; assigned and oversaw hotfix development and testing end to end
- Collaborated with Support to investigate customer-reported issues; documented and tracked bugs through their lifecycle
- Oversaw automated testing efforts and CI monitoring; developed with automated testing suites
- Assured quality in feature development by validating data quality and user experience; raised QA constraints during product design
- Automated setup and configuration of testing environments; tracked user health in FullStory, Rollbar, etc.

VetData — Lexington, KY — QA Analyst 2016 – 2017

- Responsible for continuous deployments to multiple pet-insurance-focused projects
- Communicated software changes with API consumers and partners during testing to ensure smooth version changes
- Exploratory, functionality, smoke, regression, security, and stress testing across in-house and cloud projects

- Worked closely with the dev team to keep version control clean (Git) and research complicated issues found in testing
- Ensured data integrity across software and API versions

Freelance Tech Consultant — Lexington, KY (November 2015 – May 2016)

- Designed, built, and tested network solutions for homes and small businesses
- Provided image editing, webpage mockups, web design, and 3D scene rendering for leading architecture firms
- Gave direction on current and future technology implementations for custom built homes

CirrusMio — Lexington, KY — Software Developer (November 2013 – January 2016)

- Developed current and new Ruby on Rails projects and deployed them to Amazon EC2; deployed static content to S3
- Followed projects from conception to delivery
- Developed in many languages, adapted to new workflows, and learned to develop efficiently in teams

Enskri — Lexington, KY — Lead Software Engineer (February 2014 – June 2015)

- Delivered a prototype product for prospective investors on a set schedule at a small startup
- Created and deployed a customized ecommerce web application using Ruby on Rails on AWS EC2
- Acted as lead developer and communication front for technical explanations of products
- Created a platform to digitally "sign" the back cover of a gifted ebook (epub) as a service

SIDE PROJECTS

famiglia.world

I have a huge family tree- and keeping track of family history is something that's not easy for me. As I grow older I'm realizing that preserving this family knowedge and history is something that I need to do soon- while the people that know these questions are still around. I created this project to help track the memories and legacy- with a UI my Nona would be comfortable using.

https://famiglia.world/

Claudeworld - 2026

A Custom Mod for Rimworld that connects to your claude code sessions in-game. Characters Research Bench work has claude code running. When a character stops researching the API reqeusts go on pause. Claude interactions like multiple choice are presented as in-game events and choices are passed back into Claude Code sessions.

Counter.Software - 2026

Working closely with a friend who wrote a textbook on blackjack statistics and strategy- we created a training app for counting cards and mastering basic strategy in blackjack. From never-played-cards to poker experts- there's something for everybody on https://counter.softwre

TP-G0RM — Personal Audio Archive (2026, Creator)

AI-powered platform that turns voice memos into structured insight: automatic transcription and diarization, task extraction, relationship mapping, and wellness pattern detection across 70+ specialized detection agents. Privacy-first — all LLM processing runs on personal infrastructure. Python, Whisper, local LLMs, PostgreSQL, Railway.

https://hough.io/archive/tp-g0rm/index.html

Hough.io Audio Agents (2025, Creator)

Bring-your-own-key agents built with Pydantic-AI that convert recordings into transcripts, todos, and calendar events using the user's own OpenAI or Anthropic credentials. Pydantic-AI, Whisper, FastAPI, PostgreSQL.