

FULL-STACK BUILDER · CLIENT-FACING ENGINEERING · AI-FIRST WORKFLOWS

Evan Brown

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Full-stack systems builder with eight years delivering software, compliance automation, and client-facing technical systems for regulated laboratory operations. Built Python/FastAPI workflow infrastructure with audit trails, role-based permissions, instrument ingestion, and automatic artifact generation. Daily hands-on Claude Code and Codex user building model-agnostic agent orchestration on MCP-layer tooling. Trusted across seven regulatory jurisdictions, with zero accreditations lost and \$600K+ consulting revenue generated through automation-centric engagements.

PROFESSIONAL EXPERIENCE

Creator, GOMS

2026 – Present

GIMS Technologies · Open Source Multi-Agent Development Platform

Python · FastAPI · SQLite · Vanilla JS · MCP · Claude Code · Codex

- Built a **model-agnostic multi-agent development platform** that turns software goals into planned, claimable, executable work across coder, debugger, inspector, and architect agents.
- Designed the orchestration layer around **MCP-compatible tooling**, allowing Claude Code, Codex, and future compliant tools to run through the same task, review, and execution pipeline without platform-specific rewrites.
- Implemented **atomic SQL job claiming** to prevent duplicate execution and corrupted state when multiple workers attempt to claim or complete the same task concurrently.
- Integrated **hula-loop** for headless, multi-pass code review in which each review round reads prior findings, reducing the chance that single-pass agent review misses recurring or cross-file issues.
- Built a FastAPI backend and **vanilla JavaScript SPA** with server-sent events for live browser updates of agent activity, avoiding polling overhead and eliminating frontend build-tool dependencies.

CORE COMPETENCIES

Full-Stack Delivery
AI-Assisted Development
Agent Orchestration
Compliance Automation
Regulated Workflows
Client-Facing Engineering
API & Tool Integrations
Workflow Architecture
Technical Leadership
Systems Thinking

TECHNICAL SKILLS

LANGUAGES

Python · TypeScript
JavaScript · Bash
HTML · CSS · VBA

FRONTEND

React
Vanilla JS SPAs
Responsive Web UIs

- Created a **fail-closed safety pipeline** covering prompt-injection screening, destructive-operation gating, file-scope checks, leaked-secret detection, and test status before merge.
- Added WhatsApp delivery of agent communication through an **OpenClaw integration**, extending the same orchestration layer to a new communication channel without architectural changes.

Lead Architect, GIMS

2025 - Present

GIMS Technologies

Python · FastAPI · PostgreSQL · AWS · TypeScript · Schema-Driven Design

- Designed and built an **open-source laboratory workflow engine** with audit trails, role-based permissions, automatic artifact generation, instrument data ingestion, and configurable workflow schemas.
- Architected the platform so new lab workflows can be added through configuration files and new instrument types can be added through parsers, reducing the need to modify core engine logic for client-specific deployments.
- Built **GIMS Compliance Relay**, a 21 CFR Part 11 compliance layer for pharmaceutical instrumentation, creating a compliant operating path for regulated lab equipment that lacked adequate surrounding software controls.
- Delivered a **grounded RAG pipeline** for a contract client using FastAPI, React, Supabase, pgvector, and LightRAG, including ingestion, vector indexing, semantic retrieval, structured long-form generation, and an upload-management dashboard.
- Implemented per-document isolation, relevance gating, and fail-closed response behavior so the RAG system surfaces uncertainty rather than generating unsupported answers.
- Used direct LLM-assisted development workflows before modern MCP ecosystems matured; applied those lessons to the architecture of GOMS, a reusable multi-agent orchestration platform.

Principal Solutions Architect

2022 - Present

Equilibrium Scientific LLC

Compliance Automation · Statistical Validation · LIMS Architecture · Multi-Jurisdiction Accreditation

- Architected and delivered compliance systems for **six-to-eight-figure laboratory operations** across Colorado, New Mexico, South Dakota, New York, Akwesasne, Michigan, and the Caribbean.

BACKEND & APIS

FastAPI · REST APIs

Server-Sent Events

MCP Integrations

DATA & CLOUD

PostgreSQL · pgvector

Supabase · SQLite

AWS EC2 · RDS · S3

AI TOOLING

Claude Code

Codex

Claude API · LightRAG

MCP-Layer Workflows

BY THE NUMBERS

7

regulatory jurisdictions served

10+

assay categories automated

\$600K+

consulting revenue generated

0

client accreditations lost

EDUCATION

M.S.

Microbiology

Colorado State University

2017

B.S.

Biological Sciences

Colorado State University

2015

- Served as primary technical authority for validation architecture, reporting systems, accreditation strategy, and compliance automation across concurrent client engagements.
- Rescued a Michigan ISO/IEC 17025 accreditation cycle by compressing approximately three months of unfinished preparation into **two weeks**; maintained **zero accreditations lost** across engagements.
- Designed and built a TypeScript-based **Certificate of Analysis generation system** using schema-driven reporting templates to absorb jurisdiction-specific reporting requirements without increasing operator burden.
- Engineered automated statistical validation frameworks covering accuracy, precision, LOD/LOQ, robustness, and reproducibility across **10+ assay categories**, including microbiology, potency, residual solvents, heavy metals, and mycotoxins.
- Built reproducible ingestion and normalization pipelines that converted laboratory instrument output into structured, auditable reporting schemas.
- Led cross-functional teams of 5–10 through accreditation cycles, aligning workflow execution, documentation standards, staff readiness, and regulatory expectations.
- Generated **\$600K+ in consulting revenue** through automation-centric systems, compliance architecture, and technical implementation engagements.

Sterility Laboratory Technician

2019 – 2022

Eurofins Scientific, Centennial, CO

ISO 14644 Cleanroom · LIMS Operations · Regulated Lab Workflows

- Operated daily within an ISO 14644-classified clinical cleanroom, executing sterility workflows in a regulated LIMS environment with strict documentation and contamination-control requirements.
- Identified recurring mismatches between laboratory software workflows and bench-level execution, informing later work in compliance automation, workflow design, and LIMS architecture.

Data Analyst

2018 – 2019

Bio-Techne

Process Automation · Data Cleanup · VBA Scripting

- Automated a multi-hour weekly pricing reconciliation process with VBA, reducing recurring execution time to approximately **20 minutes**.
- Standardized repeatable data-cleanup steps to reduce manual review burden and improve consistency in pricing operations.

