

Summary

Full-stack software engineer and technical product strategist specializing in automation, data infrastructure, and cloud-native backends. In the past five years: delivered healthcare and education platforms at scale, led DevOps for high-throughput releases, and built reliable integrations across AWS and modern Python stacks. I focus on systems that reduce toil, surface signal, and ship value quickly.

Core Skills

- **Languages & Frameworks:** Python, TypeScript/JavaScript, SQL, React, Next.js
- **Cloud & Infrastructure:** AWS (Lambda, API Gateway, DynamoDB, RDS, EC2/ELB, Route 53, IAM/ACM, CloudWatch/X-Ray, EventBridge), CloudFormation, Serverless Framework, Docker, Kubernetes
- **Data & Pipelines:** PostgreSQL, Redis, Snowflake, ETL/ingestion, PynamoDB
- **CI/CD & Quality:** GitHub Actions, AWS CodePipeline, Bitbucket Pipelines, Tox, Poetry, Pytest, Playwright (E2E), integration/load tests in CI
- **Product & Collaboration:** Jira, Linear, Confluence, Slack (bots/integrations)
- **AI & Automation:** OpenAI/ChatGPT API, n8n, MCP, v0

Professional Experience

Freelance Software Engineer / Consultant — Various Clients (Missoula, MT)

2009–Present

Data infrastructure, AI/automation integrations, and product delivery

- **Intrust Funding / Heaton Dainard (2024–2025):** Designed real-estate data ingestion and analytics pipelines integrating Snowflake with ATTOM and Salesforce; built Python ETL jobs, automated reporting, and implemented cost controls.
- **AI/Automation Integrations (2022–2025):** Built internal tools/bots using OpenAI API and n8n with Slack integrations to automate reporting, summarization, approvals, and human-in-the-loop workflows.
- **Product & Delivery:** Built and launched cloud-native products and web apps for startups and personal ventures using AWS, React/Next.js, and Django/Flask. Drove end-to-end execution, from architecture and CI/CD automation to team building, project management, and technical operations.
- **Tool → outcome:** Snowflake + Python ETL → partitioned loads and scheduled tasks for leaner storage/compute; n8n + Slack → faster approvals and fewer manual steps.
- **Stack:** Python, React, Next.js, Django/Flask, PostgreSQL, Redis, Snowflake, REST APIs, GitHub Actions, Serverless approaches, OpenAI API, n8n.

Software Engineer — VYNYL, LLC (Remote)

Mar 2021–Apr 2024

Healthcare (Happier Living) • Early Childhood Education (UCSF Multitudes)

- **Product & Backend:** Built a mobile-responsive healthcare portal integrating Zoom consultations and Athena scheduling using Python on AWS (Lambda, API Gateway) with a modern web front end.
- **Data & Validation (UCSF Multitudes):** Implemented Playwright E2E for critical flows; automated CSV→database validation in Python; added CI gates to block ingestion/UI regressions.
- **Observability & Delivery:** Modeled operational data in DynamoDB via PynamoDB; AWS X-Ray + CloudWatch for tracing/metrics; Serverless Framework + GitHub Actions for reproducible envs and low-downtime deploys.
- **Impact:** Delivered compliant, reliable clinician workflows and robust data validation across ingestion and UI.
- **Stack:** Python, React, AWS (Lambda, API Gateway, DynamoDB, CloudWatch, X-Ray), Serverless Framework, GitHub Actions, Playwright, Pandas, PynamoDB.

Software Engineer, DevOps — Submittable, Inc. (Missoula, MT)

Sep 2019–Mar 2021

DevOps • Release Engineering • Production Operations

- **Release Engineering:** Orchestrated SDLC and production releases using AWS CodePipeline; automated comms via GitHub releases and Slack; enforced branch hygiene and quality bars (Pytest/Tox) to stabilize daily deploy cadence.
- **IaC & Environments:** Built and maintained test/prod with CloudFormation, Serverless Framework, EventBridge, and Lambda; managed IAM/ACM and Route 53; owned cert rotation and release gating.
- **Observability & Ops:** CloudWatch dashboards/alerts; on-call with fast rollback/runbooks; Dependabot for dependency hygiene across repos.
- *Impact:* Reduced deployment overhead 30% and moved from weekly to daily reliability-focused releases.
- **Stack:** AWS (CodePipeline, CloudFormation, Lambda, EventBridge, IAM, ACM, EC2, ELB, RDS, Route 53, CloudWatch), Serverless Framework, GitHub, Pytest, Tox.

CTO — TOMIS, Inc.

Sep 2016–Jul 2019

Digital marketing and analytics platform

- **Technical Leadership:**
 - Owned product design from executive vision through technical implementation; authored detailed technical specifications and delivery plans.
 - Led backend engineering for REST APIs (Python/Django); partnered with React teams on QA and key design decisions.
 - Researched emerging tech; built prototypes and proofs-of-concept to de-risk roadmap bets.
- **Project Management:**
 - Scrum Master: sprint planning, daily standups, retros; administered Jira (boards, workflows, triage) and Confluence docs.
 - Managed Bitbucket repos and branching strategy; integrated Slack for release comms and team coordination.
 - Authored release notes from Jira releases using Confluence templates; prioritized epics using Jira Next-Gen Kanban.
- **DevOps:**
 - Enforced commit quality and code review processes; maintained feature/release/hotfix branching hygiene.
 - Implemented Bitbucket Pipelines for automated testing on feature branches; tracked bugs/feedback with Usersnap.
- **Site Reliability & Observability:**
 - Production monitoring and tracing with Datadog & Honeycomb; centralized logging and infra monitoring with Stackdriver/Datadog.
 - Exception reporting via Sentry (with Jira integration); uptime and incident comms via UptimeRobot and Statuspage.io.
- *Impact:* Spearheaded a SaaS platform for tour operators that automated workflows and delivered actionable analytics.
- **Stack:** Python, Django, PostgreSQL; Bitbucket Pipelines; Jira, Confluence, Slack; Datadog, Honeycomb, Stackdriver, Sentry; Usersnap; UptimeRobot, Statuspage.io.

Co-Founder / CTO — dotmos, LLC

Jul 2015–Jan 2017

Social/search aggregation product & consulting

- Product/architecture for Django/Node/React stack; delivered core features and integrations; supported CI/CD and monitoring.
- **Stack:** Python/JavaScript, Django/Node/React, SQL; AWS/GCP (as applicable); CI/CD.

Data Scientist / Software Engineer — Upstream Research, Inc.

Nov 2015–Sep 2016

Data and research workflows

- Implemented data processing automation and reporting pipelines; built internal dashboards/APIs.
- Built an ETL pipeline to generate ArcGIS layers from source datasets for geospatial visualization and analysis.
- **Stack:** Python, PostgreSQL, ETL tooling, Azure (admin), REST APIs; ArcGIS/ArcPy; ASP.NET MVC (C#).

Additional Experience

Security Consultant — LMG Security

Senior Software Developer — Hanna-James Enterprises

Education

M.S., Computer Science (AI/ML emphasis) — University of Montana

B.A., Psychology — University of Montana *Minors: Mathematics, Media Arts*