

Software Engineer building internal tools and workflow automation for media supply chain operations. Strong in Python, Temporal workflow orchestration, REST APIs, AWS, and practical AI/LLM-powered data intake. Led migrations to DDD/hexagonal architecture and microservices, and shipped automation that reduced delivery packaging time from hours to minutes.

SKILLS

BACKEND & WORKFLOW

Python • Flask • REST APIs • Async workflows • PostgreSQL
• DynamoDB

ORCHESTRATION & AUTOMATION

Temporal.io • Retries & idempotency • Signals • Human-in-the-loop

AI / LLM AUTOMATION

Agentic schema inference • Tabular parsing • Entity resolution •
LLM planner → deterministic validator/executor pipeline

FRONTEND

React • TypeScript • Vite • TanStack Query • Zustand
• Schema-driven forms (JSON Schema / JSONForms)

CLOUD & DEV EX

AWS (EC2, Lambda, S3, Cognito MFA, IAM, Cloud-Watch, Secrets Manager, VPC) • Docker • Dev Containers • GitHub Actions CI/CD

ARCHITECTURE

Domain Driven Design • Hexagonal architecture
• Microservices • SOLID • Deterministic Systems

EXPERIENCE

GIANT WORLDWIDE | SOFTWARE ENGINEER (PRIMARY ENGINEER) — INTERNAL TOOLS & WORKFLOW AUTOMATION

Jul 2023 - Jan 2026 | Burbank, CA

- Built internal platforms that reduced delivery packaging time from hours to minutes per delivery.
- Designed Temporal orchestration for long-running workflows with retries, idempotency, and human-in-the-loop review.
- Led migration to DDD/hexagonal architecture and microservices; set engineering standards (SOLID, GitFlow, linting)
- Owned DevEx + delivery and core infra: Docker/Dev Containers, GitHub Actions CI/CD, and AWS infra.
- Led Amazon/client technical demos supporting Preferred Vendor status and contract wins.
- R&D: LLM-based schema inference for tabular parsing + entity resolution with confidence/review gates.

GIANT INTERACTIVE | SOFTWARE ENGINEER — BLU-RAY DEVELOPMENT & INTERNAL TOOLING

Oct 2019 - Jul 2023 | Burbank, CA (On-site)

- Authored interactive Blu-ray disc software for major studio releases (BD-J / Java).
- Built internal scripts/tools that reduced manual steps and improved operations workflow efficiency.
- Developed early metadata management tooling and identified bottlenecks that informed the v2 automation architecture; sole developer on key tooling efforts (maintenance + feature delivery).

EDUCATION

CSU, FULLERTON | B.S. IN COMPUTER SCIENCE WITH EMPHASIS ON SOFTWARE ENGINEERING

2014 - 2018 | Fullerton, CA

PROJECTS

DETERMINISTIC-AGENTS | RELIABLE LLM AGENTS (PLANNER-EXECUTOR)

github.com/dn00/deterministic-agents

Python • Pipeline DAGs • Deterministic execution

- LLM proposes a pipeline DAG; a deterministic engine compiles/executes to produce reproducible outputs and stable result hashes.