# Nick Shimokochi

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*I build the systems and the teams that drive engineering velocity, operational efficiency, and business impact.*

## PROFILE

Engineering manager with hands-on depth in cloud-native platform engineering, distributed systems, and CI/CD. Consistent track record of stepping into complex technical and organizational situations and creating clarity, momentum, and results. I lead from the front: architecture decisions, direct IC contribution, and full-cycle people leadership spanning hiring, performance management, and engineer development. I build and manage teams around clear communication, thoughtful planning, and a culture where engineers take ownership of execution.

## EXPERIENCE

### Citrine Informatics
San Francisco, CA (Remote)

**SOFTWARE ENGINEERING MANAGER**
2025–Present

*Platform engineering leadership for a materials science AI/ML platform, supporting experiment data pipelines, ML workloads, and multi-tenant compute.*

- Owned the architecture and execution plan to migrate isolated, single-tenant AWS deployments to shared multi-tenant EKS infrastructure, targeting nearly 50% lower per-tenant hosting costs.
- Led the Kubernetes/GitOps rearchitecture alongside an inherited compute migration built on the Temporal task framework; delivered multi-tenant capabilities to production for approximately a dozen customers.
- Rebuilt team trust and delivery discipline through clear ownership and planning; led hiring, performance reviews, development, and staffing decisions for employees and contractors.

### Nebula.io
New York, NY (Remote)

**ENGINEERING LEAD**
2022–2025

*Led geographically distributed development (up to 11) and DevOps (2) teams concurrently, owning backend delivery and infrastructure for an AI-driven talent intelligence platform.*

- Reduced build times 50%+ and deployment costs 25%+ through CI/CD improvements, including GitHub Apps, shared workflows, and repository dispatch.
- Architected a distributed task execution framework underpinning core platform functionality.
- Led hiring, performance reviews, coaching, and career development for remote engineers and contractors; strengthened individual growth, team trust, and ownership.

### Pantheon Systems
San Francisco, CA (Remote)

**ENGINEERING MANAGER**
2021–2022

- Led the Autopilot engineering team, including hiring, performance reviews, coaching, career development, and staffing decisions; improved product stability and delivery consistency.

### Altair Engineering (now Siemens HPCWorks)
Troy, MI

**LEAD SOFTWARE ENGINEER**
2014–2021

*Progressed from engineer to lead in 2019; directed architecture and engineering across product lines while participating in hiring, performance reviews, and engineer development.*

- Designed and built a Python/AMQP plugin-based distributed task execution framework that became the foundation of Altair Control (now HPCWorks Control).
- Replaced a third-party installer with an original Python framework using a graph contraction algorithm for dynamic dependency resolution.
- Automated HPC system deployment and configuration (PBS Pro) across on-premises and cloud environments.

## SKILLS & EXPERTISE

**Leadership:** Team Building · Performance Management · Hiring · Technical Mentorship · Planning & Process Design
**Cloud & Platform:** AWS · GCP · Azure · Kubernetes (EKS, k3s) · Karpenter · ArgoCD · Helm · Terraform · Docker · Linux
**CI/CD:** GitHub Actions · GitLab CI · Jenkins · Docker layer optimization · Self-hosted runners · GitHub Apps · Shared workflows
**Distributed Systems:** Temporal · AMQP · Multi-tenant compute architecture · HPC (PBS Pro)
**Observability:** Datadog · Prometheus · Grafana
**Software:** Python · FastAPI · Flask · Bash · MongoDB · Keycloak · PostgreSQL · Elasticsearch
**AI-Assisted Development:** Cursor · Claude Code · Agentic coding workflows · Context engineering · LLM API tooling · MCP servers

## PROJECT HIGHLIGHTS

**Citrine Informatics**

EKS, ArgoCD, Temporal, AWS, Kubernetes, Terraform, Datadog

ML platform infrastructure for materials science; multi-tenant compute supporting experiment data pipelines and ML workloads.

citrine.io

**Nebula.io**

Python, Flask, GCP, Docker, Kubernetes, Elasticsearch, LLM, NLP, Jenkins

AI-driven talent intelligence platform. Technical direction, team leadership, product backend, and DevOps.

nebula.io

**Altair Control**

Python, RabbitMQ, Docker, Postgres, MongoDB, Bash, Linux, Azure, GitLab CI

HPC cluster configuration, analytics, and scheduler simulation; backend design, architecture, and implementation. Product now HPCWorks Control.

siemens.com/en-us/products/hpcworks/

## EDUCATION

**Oakland University**
Rochester, MI
M.A., Applied Mathematics · PhD coursework completed · 2006–2011

**Middle Tennessee State University**
Murfreesboro, TN
B.S., Applied Mathematics · 2001–2006