Nicholas Moyer

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Mission-driven Software Engineer specializing in intelligent backend architecture, AI integration, and FHIR interoperability. Excels in fast-paced startups, using first-principles thinking to build resilient, HIPAA-compliant systems. Proven success in bridging complex healthcare data and modern infrastructure to automate clinical workflows and reduce operational friction.

TECHNICAL SKILLS

- Languages: Python (Pandas, NumPy, PyTorch), Node.js/TypeScript (React), GoLang, SQL, Bash
- Backend & Data: Django, REST, GraphQL, Postgres, MongoDB, ETL Pipelines, FHIR/HL7
- Cloud & Infra: AWS (Lambda, ECS, S3, VPC, IAM), GCP, Terraform, Docker, CI/CD, Datadog
- Concepts: Machine Learning, Data Modeling, Distributed Systems, System Design, Observability

EDUCATION

The Ohio State University Aug 2013 – May 2017

- **Bachelor of Science:** Engineering Physics (Computer Science Engineering)

Coursera Oct 2022

- **Machine Learning Specialization** (DeepLearning.AI)

WORK EXPERIENCE

Remo Health: Software Engineer III Oct 2024 – Dec 2025

Software Engineer II Oct 2023 – Oct 2024

- Led the integration of Medplum (a FHIR server) into the core patient pathways application. Developed and deployed several Medplum Bots (serverless functions) to automate critical workflows.
- Optimized a production-level LLM-agent (Python/LangChain) responsible for summarizing extensive patient EHR records and reducing manual review time for clinicians.
- Designed and built secure, resilient services to interact with external APIs. This process automated real-time verification of patient insurance eligibility and enabled synchronization of historical records.

Olive AI: Software Engineer II Aug 2021 – Feb 2023

Software Engineer I Aug 2022 – Aug 2021

- Engineered automated workflows to ingest, validate, and manipulate large volumes of PHI (X12 claim data), ensuring data integrity for downstream analytics.
- Deployed and managed scalable backend infrastructure using Terraform and AWS, ensuring full HIPAA compliance and security.
- Refactored legacy codebases to improve maintainability and performance, implementing rigorous unit testing and documentation standards.

VasoGnosis: Full-Stack Developer Sep 2020 – Aug 2021

- Developed "VG-Recon," a Django-based platform for analyzing 3D medical images (DICOM/NIFTI). Integrated AI models to automate image processing and diagnostic data extraction.
- Managed the migration to cloud-based infrastructure on AWS, implementing CI/CD pipelines to streamline deployment and reduce release cycles.
- Built APIs to parse complex medical metadata and integrate with external health organization systems, extending product capabilities.

AWH: Software Developer Jul 2018 – Sep 2020

- Implemented complex SQL modifications to handle data deduplication and improving performance
- Managed requirements for multiple simultaneous client projects while mentoring junior developers.
- Utilized cloud monitoring tools to diagnose production bottlenecks, ensuring minimal downtime.

AK Steel: Associate Process Automation Engineer Sep 2017 – Jul 2018

Automation Engineering Intern May 2017 – Sep 2017

- Applied mathematical modeling to industrial process data to optimize steel production efficiency.