

Cleo Spiers

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EDUCATION

University of Oklahoma

Bachelor of Science in Computer Science, Minor in Psychology

Aug 2018 – May 2022

Norman, OK

EXPERIENCE

Software Development Engineer

Amazon

June 2022 – April 2026

Seattle, WA

- Built and operated an internal platform powering 47,000+ machine learning and LLM experiments, with reproducibility as the core goal: versioned experiment configuration, repeatable evaluation workflows, and result tracking that held up across thousands of runs and many teams.
- Designed distributed orchestration with AWS SQS, Step Functions, and Lambda to coordinate concurrent, fault-tolerant workloads with retry handling and automated failure recovery.
- Built backend APIs and WebSocket streaming pipelines in Python and TypeScript to surface real-time experiment metrics to full-stack dashboards used by scientists and product teams.
- Released and maintained internal tooling and services with structured logging, tracing, and CloudWatch alerting to detect and resolve production issues, including on-call support.
- Participated in code review and wrote technical documentation to keep a shared codebase maintainable across many contributors.
- Led an internal hackathon project that extended the platform to summarize and compare product listings, winning first place and being demoed to Amazon leadership.

Full Stack Developer

Oklahoma Blood Institute

May 2021 – May 2022

Oklahoma City, OK

- Built the Bio-Linked participant registry that helped medical researchers recruit and enroll participants for clinical studies, managing data for 50,000+ users.
- Shipped a React Native mobile version of the participant portal, increasing mobile adoption by 30%.
- Implemented an Angular admin portal with a drag and drop cohort query builder, allowing researchers to filter participant data and identify eligible cohorts for clinical studies.

NOTABLE PROJECTS

Listing Summarization & Comparison Demo

CEO Demo + Hackathon Winner

2025

Seattle, WA

- Built a real-time aggregation and streaming backend using WebSockets to power low-latency summarization features.
- Integrated multiple data sources into a single API for summarizing, comparing, and deduplicating listings at scale; presented to Amazon leadership and won first place.

Prompt Generation Assistant

Amazon Internal Platform

2025

Seattle, WA

- Developed backend services for automated generation and refinement of templates, enabling rapid, large-scale experimentation with minimal manual input.
- Built full-stack interfaces for job scheduling, result visualization, and statistical reporting to support cross-team collaboration and faster iteration.

TECHNICAL SKILLS

Languages: Python, TypeScript, Java, SQL, C++

Distributed Systems: Job orchestration, queueing, real-time data streaming, fault-tolerant workflows

AWS: SQS, Step Functions, Lambda, DynamoDB, Fargate, EC2, API Gateway, S3, CloudWatch

Frontend: React, React Native, Angular, WebSocket streaming, RESTful APIs

Tooling & Practices: Git/GitHub, code review, technical documentation, reproducible and versioned experiment configuration

Reliability: Observability, tracing, alerting, runbook-driven recovery, regression tracking, production monitoring