

PARVEZ AHMED

[linkedin](#) · [Github](#)

AI Engineer · Backend Systems · Full Stack Solutions

CONTACT

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ABOUT

AI Engineer specializing in agentic systems, multi-model orchestration, and production LLM applications. Currently Senior Analyst at Northern Trust, architecting a RAG pipeline over a legacy AS/400 codebase using Azure GAI and Neo4j. Resolved 800+ springboot container vulnerabilities, cut CI/CD deployment time by 40%, and built a report conversion tool adopted company-wide.

PROFESSIONAL EXPERIENCE

Senior Analyst | April 2026 – Present

Northern Trust

- Architected a Retrieval-Augmented Generation pipeline over a legacy AS/400 codebase, leveraging Azure GAI for semantic search and Neo4j graph database for dependency mapping — enabling developers to query and understand decades-old business logic in natural language.

Analyst, SWE | Aug 2024 – 2026

Northern Trust

- Led end-to-end migration of 21 Spring Boot microservices from v2.1.x to v2.7.x, resolving dependency conflicts and delivering zero-downtime rollout across enterprise banking infrastructure.
- Remediated 800+ container vulnerabilities across 21 microservices by upgrading third-party dependencies and hardening container configurations.
- Built a Python report conversion tool that transforms large TLM HTML reports into optimised XLSX files, cutting load time from several minutes to under 5 seconds; adopted company-wide by operations teams.
- Automated CI/CD pipelines via GitHub Actions, cutting deployment time by 40% and improving release reliability across PCF-hosted services.
- Engineered a script to convert NT ISO financial messages to CAMT.053 format, parsing large XML files into optimised chunks and reducing processing time from ~9 minutes to under 50 seconds — an 82% reduction.

Front-End Engineering Intern | Jun 2023 – Sep 2023

Northern Trust

- Improved frontend Lighthouse performance scores by 25% through targeted audits, code-splitting, and accessibility fixes across internal platforms.
- Integrated REST APIs to power dynamic, data-driven components for financial dashboards.

Front-End Engineering Intern | Jun 2023 – Sep 2023

Northern Trust

- Improved frontend Lighthouse performance scores by 25% through targeted audits, code-splitting, and accessibility fixes across internal platforms.
- Integrated REST APIs to power dynamic, data-driven components for financial dashboards.

SKILLS

Languages

Python, Java, TypeScript, JavaScript, Shell Scripting

Frameworks & Infra

Spring Boot, React, React Native (Expo), Django, Node.js, Astro, Docker, GitHub Actions, Cloudflare Pages, PCF

Databases

PostgreSQL, Snowflake, SQLite, Oracle SQL, Pinecone, MySQL, Neo4j

EDUCATION

Vishwanath Karad MIT World Peace University | Sep 2020 – May 2024

B.Tech, Computer Science Engineering

- CGPA: 9.55 / 10
- Top 6 finalist Northern Trust Intern Hackathon