

Stephen Ebrahim

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SUMMARY

Software Engineer with a B.S. in Computer Science from NJIT (4.0 GPA) focused on building scalable backend systems, cloud infrastructure, and internal platforms. Experienced designing reliable AWS services, distributed systems, and data pipelines using Python, Java, TypeScript, and Kubernetes. Proven ability to improve system resilience, reduce operational complexity, and rapidly adapt across complex engineering environments to deliver efficient and impactful software solutions.

TECHNICAL SKILLS

Languages: Python, Java, TypeScript / JavaScript, C, C++, Rust, SQL

Cloud & DevOps: AWS, EC2, DynamoDB, S3, Lambda, IAM, SQS, Kubernetes, Docker, CI/CD, Git, GitHub Actions, Microsoft Fabric

Frameworks & Tools: Node.js, Spring Boot, FastAPI, React.js, Angular, MongoDB

WORK EXPERIENCE

Prudential Financial | Newark, NJ

Jan 2024 – Present

Software Engineer (Technology & Data Rotational Program)

- Engineered resilient **retry logic** for a **Kubernetes Namespace** Registration service using **AWS SQS** and Dead Letter Queues (DLQ), ensuring **zero data loss** and autonomous recovery from transient downstream outages
- Re-architected task-processing logic from a **2,000+ line** switch-based implementation into a config-driven dictionary framework, reducing codebase bloat by **90% (~200 lines)** and accelerating new requirement integration
- Built a **Python** data pipeline to ingest and normalize **5.5k+ ServiceNow** privileged access request data, leveraging **Claude Code** for LLM-driven software categorization to support initiatives **reducing unnecessary admin access** and improving security posture
- Led the development of a self-service internal admin platform, **eliminating dozens of weekly** manual support requests and significantly reducing developer operational overhead
- Designed and scaled a **Microsoft Fabric** analytics pipeline processing **10k+ daily ECS/EKS** container telemetry records from **Wiz**, producing structured time-series datasets and executive-facing dashboards that improved resource cost attribution, cluster visibility, and optimization decision-making
- Implemented a **standardized error-handling library** adopted across **4 core** orchestration services, improving production stability and cutting issue triage time

Prudential Financial | Newark, NJ

Jun 2023 – Aug 2023

Software Engineer Intern (Full-Stack)

- Developed a **Node.js (Koa.js)** middleware layer to streamline secure request routing and data transmission between frontend clients and core distribution APIs
- Led a cross-functional **hackathon** team in designing and building a web application with **React.js**, guiding members from diverse technical backgrounds through successful project delivery

Verisk Analytics | Jersey City, NJ

Jun 2022 – Dec 2022

Software Engineer Intern (Full-Stack)

- Designed and built a core mapping interface using **Google Maps Platform** and **MapboxGL**, delivering foundational spatial visualization features for the primary web application
- Refactored legacy components using **Angular** best practices, collaborating with senior engineers to enhance codebase maintainability and performance

EDUCATION

New Jersey Institute of Technology – Newark, NJ

Sep 2020 – May 2024

Bachelor of Science in Computer Science | GPA: 4.0 / 4.0

CERTIFICATES/AWARDS

- AWS Certified Cloud Practitioner Apr 2026
- President's Medal for Academic Excellence (NJIT) May 2024
- Valedictorian of Class of 2020 (DHS) Jun 2020