

Parvez Shaik

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Professional Summary

Software Engineer and MS in Computer Science candidate at Indiana University Bloomington with 4 years of experience across backend systems, cloud deployments, and DevOps automation. Built CI/CD workflows on AWS EC2 using Docker and Jenkins, improving deployment reliability to 99.7 percent. Strong with production troubleshooting, PostgreSQL query tuning, application logs, smoke test checks, and cross team release support. Open to relocate across the U.S. for SRE, DevOps, and cloud engineering roles.

Technical Skills

Languages: Python, Javascript, Java (J2EE, JDBC), Typescript

AI and LLM Retrieval: RAG, GraphRAG, LlamaIndex, FAISS, AutoGen, SpaCy

Backend and API: JDBC, Spring, Hibernate, Node.js, Express.js, FastAPI, REST, GraphQL, gRPC, caching, API authentication with OAuth 2.0 and JWT

Databases and Storage: PostgreSQL, MySQL, Redis, MongoDB, RocksDB

Cloud and DevOps: AWS, Azure, Docker, Kubernetes, Jenkins, GitHub Actions, Terraform, Git, Linux, Bash, CI/CD

Distributed Systems: Application Monitoring, Logs, Incident Response, System Performance, Observability, Latency and Query Optimization

Frontend: React.js, Redux, Tailwind CSS

Experience

Software Developer Intern - MyEdMaster

Jun. 2025 - Aug. 2025

- Built a Python based AI content pipeline using MySQL, Redis, and GraphRAG. Integrated AutoGen agents into the review workflow and reduced manual content evaluation time by 23%.
- Improved retrieval workflow for a proprietary LLM using LlamaIndex and SpaCy. Supported generation of 2,800 plus topic specific assessment items and raised content relevancy from 72% to 83%.
- Deployed a Flask backend on AWS EC2 using Docker and Apache. Troubleshot 4 recurring deployment issues with backend engineers and improved model evaluation speed by 18%.

Software Development Engineer II - Cognizant

Sep. 2022 - Apr. 2024

- Maintained Node.js and Express.js microservices in production. Tuned PostgreSQL indexes and query execution, reducing data retrieval latency from 420 ms to 295 ms.
- Led troubleshooting for recurring deployment failures across Jenkins, Docker, and AWS EC2. Used logs and runtime checks to isolate failure patterns and improve deployment reliability to 99.7%.
- Added Docker, configuration, and smoke test checks into Jenkins release workflows. Cut release time by 35 minutes per sprint and reduced deployment failures by 45 percent.
- Partnered with development, QA, and DevOps teams during sprint releases. Reviewed failed builds, fixed environment issues, and supported cleaner handoffs across deployment stages.

Software Development Engineer - Cognizant

Aug. 2021 - Sep. 2022

- Built React.js dashboards for internal analytics workflows using GraphQL and Django APIs. Supported near real time reporting for internal users.
- Improved slow refresh behavior in React dashboards during feature updates. Refined data fetch handling and component rendering, raising data rendering speed by 21.6%.
- Containerized backend services on AWS EC2 using Docker and Jenkins for deployment environments. Cut setup time per environment from 82 minutes to 39 minutes and reduced manual deployment errors by 17%.

Software Development Intern - Widhya

Jan. 2021 - Jul. 2021

- Assisted in building an RNN based text classification model using TensorFlow and SpaCy. Refined tokenization and hyperparameter settings, raising validation accuracy from 88.4% to 93.2%.
- Automated Python experiment scripts for data preprocessing and model evaluation using Pandas and Scikit learn. Cut repetitive testing time by 27%.

Projects

Distributed Vector Database for AI Applications | Python, gRPC, RocksDB, LlamaIndex, AWS S3, GraphRAG

- Designed a distributed vector database using gRPC for node communication and RocksDB as the storage engine. Integrated GraphRAG and LlamaIndex for semantic retrieval across 140M plus embeddings.
- Reached 93 ms average query latency on large LLM retrieval workloads. Optimized indexing and retrieval across distributed nodes for context aware search at scale.

Education

MS in Computer Science - Indiana University Bloomington

Aug. 2024 - May. 2026