Amithesh Sathish

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Summary

Software Engineer with experience in cloud systems, large-scale data pipelines, and AI-powered applications. Internships at Warner Music Group and Quantum Leap Technologies with proven impact on scalability, reliability, and cost optimization. Strong background in backend development, data engineering, and distributed systems, complemented by AI/ML expertise. U.S. Citizen.

Core Skills

- Languages: Python, SQL, JavaScript, Java, C++, Bash
- Backend/Data: Apache Spark, REST APIs, MySQL, PostgreSQL, ETL Pipelines
- Frontend: React.js, JavaScript, Streamlit, Flask
- Cloud/DevOps: AWS (Lambda, EC2), Docker, Terraform, GitHub Actions, GitLab, Git
- Concepts: Distributed Systems, ML Pipelines, Debugging, Software Testing, CI/CD

Education

The University of Iowa

Iowa City, IA

Bachelor of Science in Computer Science

Expected June 2025

Relevant Coursework: Database Systems, Computer Organization, Data Structures & Algorithms, Computer Networks, Probability & Statistics, Software Development

Certifications

AWS Cloud Practitioner — DeepLearning.AI Prompt Engineering — Edureka AI/ML — Udemy Agentic AI

Experience

Quantum Leap Technologies

Software Engineer Intern

Dec. 2024 – Present

- Designed and deployed **Apache Spark ETL pipelines** integrated with PostgreSQL; reduced batch job runtime from $5 \text{ hrs} \rightarrow 3 \text{ hrs}$.
- Optimized AWS EC2/Lambda infrastructure, cutting API latency by 20% and scaling to 100k+ users.
- Refactored React.js frontend components, improving load speed by 25% and user engagement by 15%.
- Collaborated on Generative AI workflows and ML pipelines, bridging backend and AI systems.

Warner Music Group

New York, NY

New York, NY

 $Software\ Engineer\ Intern$

Nov. 2023 – Mar. 2024

- Built and optimized data pipelines (Apache Spark, Pandas), reducing processing time by 40%.
- Automated ad-targeting processes, lowering customer acquisition costs by 20%.
- Developed ML models for ranking predictions using regression and ensemble methods; improved campaign efficiency.
- Partnered with marketing teams to integrate data-driven models into production systems.

Projects

Disaster Assistance Management System

- Built a full-stack web app (React, Flask, MySQL) to coordinate disaster relief requests and donor contributions.
- Implemented authentication, request/response matching, and role-based dashboards.

OpenAI Projects (GitHub)

- Developed applications leveraging GPT APIs, LangChain, and RAG pipelines.
- Integrated Pinecone/FAISS search for scalable document retrieval.
- Deployed using Flask/Streamlit with real-time API integration.

Awards & Leadership

- National Society of Black Engineers Active Member, 2023–Present
- Dean's List, University of Iowa 2023
- Hackathon Winner: GenAI Track, University of Iowa, 2024
- Led 3-person team for AI-driven project prototypes in campus AI club