Akhileshwar Reddy Songala

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Education

Lamar University, Beaumont, TX   Aug 2022 - May 2024
Master of Science in Management Information Systems   GPA: 4.0

Vellore Institute of Technology, Andhra Pradesh, India   Aug 2017 - June 2021
Bachelor of Technology in Mechanical Engineering   GPA: 3.2

Experience

Software Engineer   May 2024 – Till Date
Cloudforce Technologies   Schaumburg, IL

- Designed and implemented scalable full-stack solutions, utilizing **React.js** for front-end architecture and **Node.js** with Java Spring Boot for microservices, optimizing system performance and reducing **API** response times by 25%.
- Developed and deployed **RESTful APIs** to facilitate seamless integration between distributed services
- Participated in the full Software Development Lifecycle (SDLC), including requirements, design, development, and testing.
- Architected a high-performance, event-driven data system using **Java Spring Boot**, **PostgreSQL**, and **Apache Kafka**, which reduced data retrieval latency by 40% and ensured real-time data synchronization across distributed microservices.
- Improved application performance by 25% and user engagement by 15% by developing scalable full-stack solutions, utilizing **React.js** for front-end architecture and **Node.js** with **Java Spring Boot** for microservices.
- Collaborated effectively with team using version control systems (**Git**) to manage code changes and achieve project goals.
- Reduced deployment times by 40% and enhanced release efficiency by implementing a comprehensive DevOps strategy, including automated infrastructure provisioning on **AWS**/**Azure** with Terraform and **CI/CD** pipelines with Jenkins.
- Partnered in a 5-person Agile team to meet project milestones, deliver features & fix critical production issues.

Student Tech Associate   Aug 2022 - Jan 2023
University of Houston-Clear Lake   Houston, TX

- Administered **Linux**/**Unix** network infrastructure for 180+ rooms, boosting classroom technology uptime.
- Resolved 50+ daily technical issues by automating ticketing in **PeopleSoft**, slashing resolution time by over 30%.
- Authored & deployed a new IT knowledge base, enabling user self-service & boosting team support efficiency.

Software Engineer   Aug 2021 - Jul 2022
MRF LTD   Hyderabad, Telangana

- Engineered a full-stack workflow application using **Java Spring Boot** and **JavaScript**, which automated core business processes and cut manual effort by 30%; managed the complete **SDLC** within an Agile framework using **JIRA** and **Git**.
- Implemented secure, RESTful APIs using **Spring MVC** and **Spring Security** to power a real-time KPI analytics dashboard, providing critical business intelligence that drove a 15% increase in data-driven strategic planning.
- Orchestrated a zero-downtime migration of over 50,000 customer records to an **Oracle DB**, authoring high-performance Java batch scripts with **JDBC** to guarantee 100% data integrity and full regulatory compliance.

Manufacturing Intern   Jan 2021 - July 2021
Bharath Dynamics Limited   Hyderabad, India

- Programmed CNC machinery control logic, achieving **0.01mm precision** & reducing material waste by over **15%**.
- Analyzed gigabytes of production data to identify system bottlenecks, improving product reliability & workflow.

Academic Projects

Microservices-based E-commerce Platform | *Spring Boot, Java, React.JS, MySQL* |

- Architected a scalable e-commerce platform using a **Java**-based **microservices** architecture (**Spring Boot**) and a responsive **React.js** front-end, designed to support 1,000+ concurrent users.
- Implemented secure **RESTful APIs** for core functionalities including user authentication, product catalog management, and order processing. Containerized the full application with **Docker** to streamline the development-to-production workflow and ensure consistent, scalable deployments.

AI-Powered Customer Support Chatbot | *Python, TensorFlow, LLM, Generative AI, MongoDB* |

- Engineered an intelligent chatbot using **Python** and **TensorFlow**, improving support accuracy by 40% by leveraging a **Generative AI (LLM)**.
- Developed a full **NLP** pipeline for intent recognition and entity extraction, providing a human-like conversational flow to enhance user engagement.

Technical Skills

Front-End: React.js, Angular, HTML5, CSS3, JavaScript, TypeScript | **Programming:** Python, Java, SQL, C++, Apex.
Back-End: Java, Spring Boot, Node.js, Hibernate, Microservices, RESTful APIs | **DevOps:** CI/CD Pipelines, Git.
Programming: Python, Java, SQL, C++, Apex, SOQL | **Databases:** Postgres, Oracle DB, MongoDB, MySQL
AI/ML: LLM, Generative AI, Natural Language Processing (NLP), TensorFlow | **Cloud & Monitoring**: AWS & GCP.
Analytics Tools: Tableau, Power BI, Salesforce Einstein Analytics | **Databases:** PostgreSQL, MongoDB, MySQL