Muhammad Hassan Chattha

Software Engineer

A proficient Java Software Engineer with a strong background in IT support and systems engineering. Passionate about leveraging my Java expertise to drive innovation in dynamic environments.

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EDUCATION

Master of Science in Artificial Intelligence
Universität Erlangen-Nürnberg, Germany
04/2024 - Gegenwart

Bachelor of Science in Computer Science
Punjab University of Information Technology
06/2018 - 06/2022

WORK EXPERIENCE

Software Engineer
Careem
12/2023 - 04/2024
Achievements/Tasks
- Developed a scalable REST microservice for the Careem Super App, leveraging Vector Postgres for efficient data management and implemented JWT-based OAuth for secure user authentication.
- Ensuring continuous operation with health check services like Grafana for monitoring, Kibana for logging, and Jaeger for tracing requests using OpenTelemetry.
- Managed CI/CD pipelines using GitHub Actions, deploying dockerized service on AWS server.
- Optimized prompt engineering to enhance accuracy of results with large language models (LLMs) like GPT.

Software Engineer
i2c Inc.
07/2022 - 12/2023
Achievements/Tasks
- Pioneered the shift to a event-driven microservices architecture using Maven Spring Boot, significantly boosting system scalability and reducing maintenance overhead.
- Integrated Kafka for efficient transaction handling, enhancing throughput and reducing latency.
- Enforced rigorous testing for software reliability and performance, automating tests with bash scripts.
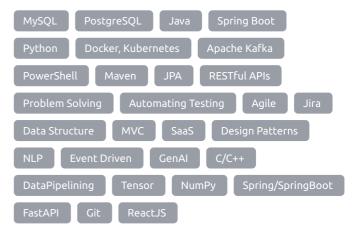
Internee
Infotech (PVT) Ltd.
07/2021 - 09/2021
Achievements/Tasks
- Spearheaded backend development using Java and JavaFX, improving application performance through optimized code structure and efficient resource management.
- Reduced processing time for critical operations by utilizing advanced algorithms and data structures, enhancing software responsiveness.
- Facilitated seamless collaboration between development and SQA teams, improving bug resolution times and significantly reducing post-release defects.

SKILLS

MySQL · PostgreSQL · Java · Spring Boot · Python · Docker, Kubernetes · Apache Kafka · PowerShell · Maven · JPA · RESTful APIs · Problem Solving · Automating Testing · Agile · Jira · Data Structure · MVC · SaaS · Design Patterns · NLP · Event Driven · GenAI · C/C++ · DataPipelining · Tensor · NumPy · Spring/SpringBoot · FastAPI · Git · ReactJS

PERSONAL PROJECTS

Time Table Web App

GUI Chat Application

Java GUI IDE

E-Commerce Clothing Web App

Computerized Test System

CERTIFICATES

Machine Learning
Achieved from LinkedIn

Java
Acheived 4-Star rating on HackerRank

Problem Solving
Acheived 4-Star rating on HackerRank

Google Code Jam
Participated in Google Coding Jam Competitions

SQL
Acheived 4-Star rating on HackerRank

LANGUAGES

English
Native or Bilingual Proficiency

German
Elementary Proficiency

INTERESTS

Software Engineer · Machine Learning · GenAI · Data Science · Deep Learning