MOHAMMED AMEER KHAN

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Professional Summary

Google Software Application Developer with **1+ years of total experience**, currently engineering next-generation solutions for the **Real World Journeys (RWJ) Emerging Journey team**. Specializes in the intersection of **Search and AI**, with expertise in **full-stack development** that seamlessly bridges **backend data models** with **frontend user interfaces**. Proficient across the **Software Development Life Cycle (SDLC),** delivering performance-optimized solutions to enhance **user engagement**. Passionate about solving complex technical challenges and enabling organizational success.

Skills

Programming Languages & Databases : Java, Javascript, MySQL,PostgreSQL, MongoDB, TypeScript

Frameworks & Libraries : React.js, Angular Js, Node.js, Express.js, Bootstrap.

Technical Proficiencies : OOPs Concepts, Data Structures & Algorithms, Design Patterns, Multithreading

Work Experience

Google | Software Application Developer Apprentice, Google Search AI Mode |Apr 2025 – Present

- Improving data sourcing for an **AI-powered search mode**, handling **millions** of **"Two-Wheeler" user queries**, by architecting a system to prioritize in-house **Knowledge Graph data over third-party APIs**, enhancing data reliability.
- Built and optimized a data pipeline using **graph database query languages (e.g., PathQuery)** and a microservice-based Query Result Service (QRS), **boosting first-party data coverage** for related queries by **25%**.
- Implemented a new data provider framework within the Query Result Service to efficiently retrieve and serve **~60** distinct data points for **traditional and EV Two-Wheeler specifications** to AIM tools.
- Developed a textualization service to automatically convert **structured data** from the Knowledge Graph into natural, **human-readable** text snippets. This enhanced the quality and auditability of AI-generated answers, **boosting the accurate citation of Knowledge Graph data** within these responses by **30%**.
- Leading ongoing **debugging and optimization efforts** for the AI-powered search mode, which has increased the selection rate of the **new Motorcycle tool by 50%** for relevant queries.
- Improved **code quality** and **system robustness** by increasing **unit test coverage by 40%** across data access, query processing, and text generation modules.
- Delivered **UI/UX** refinements for the **PriceBreakDown Bento feature**, including correct currency localization for Indian Rupees, which led to a **5%** increase in **user engagement**.
- Enhanced application usability and **responsiveness** across devices by refactoring components, resolving **12** critical issues in **collaboration** with UI/UX and **QA**.

Software Engineer at LTI Mindtree | Team Lead | Java Full Stack Developer | Dec 2024 - Mar 2025

- **Led a team of 5 Developers** at LTI Mindtree to build a **Pet Care application** in **10 days**, overseeing the entire software development lifecycle (**SDLC)** from documentation to deployment.
- Designed a scalable architecture using **Angular** (Frontend), **Spring Boot (Backend)**, and **MySQL (Database)**, utilizing **JPA** for efficient **data persistence** and **RESTful APIs** for seamless communication.
- Established strict engineering protocols within a **Waterfall framework**, standardizing API definitions using **Swagger** and validating system logic with Postman to ensure seamless data flow and architectural consistency.

Education

Gokaraju Rangaraju Institute Of Engineering and Technology | Jawaharlal Nehru University | Sep 2020 - Aug 2024

Bachelor of Technology | Electronics & Communication Engineering

Additional Information

- **Certifications:** Google AI Essentials, Apprentice Hack 2025 Hackathon Certification, SQL HackerRank
- **Interests:** LLM & Generative AI Experimentation, Competitive Programming