

# Khushi Gandhi

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## SUMMARY

**Software Engineer** with 2+ years of experience in full-stack development and writing RESTful APIs. Strong problem-solving skills with a focus on building scalable, high-performance solutions. Proficient in Java, SQL, object-oriented programming, data structures, with hands-on experience in frameworks like React and Spring Boot. Strive to develop technology that enhances user experiences and delivers impactful, efficient solutions.

## EDUCATION

**M.S. in Computer Science | CGPA: 4/4**

Expected Graduation: May 2026

*University of Massachusetts, Amherst Massachusetts*

**B.Tech in Information Technology | CGPA: 8.94/10**

June 2018 - June 2022

*Manipal Institute of Technology, Karnataka, India*

## EXPERIENCE

**Deutsche Bank - Pune, India**

July 2022 – August 2024

*Software Developer*

- Collaborated with cross-functional teams of **50+ members** in an **agile environment** to deliver scalable fintech applications for onboarding banking clients, raising alerts to identify potential threats to ensure compliance.
- Utilized problem-solving skills to create a fallback mechanism for handling service disruptions of a third-party service in order to run Spark jobs. This improved uptime by almost **30%** and reduced the need for manual intervention.
- Designed, developed, and deployed backend services by following SDLC best practices which included a user authorization feature for managing alerts, generating reports, and sending automated notifications
- Implemented **12+** end-to-end **GraphQL and REST API** queries to streamline UI-backend interactions across **5 microservices**, along with developing multiple SQL queries for efficient data retrieval and synchronous transmission.
- Performed comprehensive **System Integration Testing** and **code review**, identifying and resolving **15+** critical issues to ensure seamless integration of new features, which contributed to improved stability in production environments.

## PROJECTS

**Database Management System**

Jan 2025 - April 2025

- Designed a Buffer Manager in **Java and Maven** by integrating an LRU replacement policy and a hash-based lookup system to optimize page retrieval from a binary file with **10 million+** records and reducing disk I/O overhead.
- Implemented a **B+ Tree** indexing mechanism to facilitate fast searches on both clustered and unclustered indexes, improving query performance by up to **100x** compared to sequential scans
- Wrote end-to-end and unit test cases using **JUnit and Mockito**, achieving **99%** test coverage and ensuring correctness, efficiency, and reliability under various workloads.

**SilentSpeak : Muted Speech Detection Using Jaw Motion** 

Oct 2024 - Dec 2024

- Developed a **motion-based speech command recognition** system using IMU sensors to capture jaw movements in real-time and triggering actions on the phone based on these commands.
- Trained a Random Forest Classifier, achieving **88%** accuracy in classifying commands based on IMU sensor data.
- Awarded '**Best Project**' for creating an innovative, noise-resilient, privacy-conscious speech recognition system that offers an inclusive solution for environments where audio-based systems are impractical.

## LEADERSHIP EXPERIENCE

Led a team of **10** members in a 24-hour **global hackathon** in Deutsche Bank to develop an AI-powered application for customer support, automating responses, managing, and generating reports. The project emphasized team building and collaboration, with the solution enhancing communication and improving customer satisfaction in banking services.

## TECHNICAL SKILLS

**Languages:** Java, C++, Python, HTML, CSS, Javascript, GraphQL, SQL, Go

**Frameworks:** Springboot, React

**Others:** Git, Google Cloud Digital Leader