

# Khushi Gandhi

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## SUMMARY

**Software Engineer** with 2+ years of experience in finance and trading firms developing scalable, high-performance systems using Java, Spring Boot, and SQL. Hands-on experience in CI/CD pipelines, automated deployments, and production support.

## EDUCATION

**University of Massachusetts, Amherst Massachusetts**

Expected Graduation: May 2026

*Masters of Science in Computer Science*

**CGPA: 4/4**

- **Relevant Coursework:** Database Design, Data Science, Advanced Algorithms, Information Retrieval

**Manipal Institute of Technology, Karnataka, India**

June 2018 - June 2022

*Bachelor of Technology in Information Technology*

**CGPA: 3.7/4.0**

- **Relevant Coursework:** Data Structure and Algorithms, Object Oriented Programming, Software Engineering

## TECHNICAL SKILLS

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

**Frameworks:** Spring Boot, React, Vue

**Tools and Concepts:** Cloud Computing, Git, Systems Design, Microservices, Database Architecture, Distributed Systems

## EXPERIENCE

**Software Developer Intern | Interactive Brokers - Connecticut, US**

June 2025 – Present

- Rebuilt CRM front-end navigation by designing a global breadcrumb system, removing **300+** lines of legacy code and making the application easier to maintain.
- Built components for dashboard widgets, enabling users to customize their workspace and view real-time data through backend APIs and database queries.
- Enhanced application responsiveness by resolving **7** user-reported issues using Vue and JavaScript.

**Software Developer | Deutsche Bank - Pune, India**

July 2022 – August 2024

- Collaborated with cross-functional teams of **50+ members** in an agile environment to deliver scalable fintech applications for onboarding of banking clients and raising alerts to detect anomalies in transaction workflows.
- Improved data job uptime by **30%** by engineering a fallback mechanism in Spark workflows for third-party service disruptions.
- Reduced manual efforts by **40%** by automating report generation with a cron job to fetch data for new regional clients.
- Implemented **12+** end-to-end **GraphQL and REST API** queries to streamline UI-backend interactions across **5 microservices**, along with writing multiple **SQL queries** in JDBC for efficient data retrieval.
- Identified and resolved **15+** critical issues through testing, debugging, and code reviews, while also ensuring successful deployments by validating Jenkins **CI/CD** pipeline runs.

## PROJECTS

**IMDB Query Engine | Java, SpringBoot, Maven** 

January 2025 - April 2025

- Designed a **relational query engine** to reduce disk I/O overhead when retrieving pages from over **70 million** records by incorporating a custom buffer manager to cache frequently accessed data using an **LRU** replacement policy.
- Engineered a **100x** query speedup through custom **B+ Tree** indexing mechanism supporting fast searches on both clustered and unclustered indexes.
- Built a query executor from scratch to process records from **3** relational tables, designing scan, selection, projection, materialization, and **Block Nested Loop (BNL)** joins operators using a fixed execution plan.

**SilentSpeak : Muted Speech Detection Using Jaw Motion | C, Python** 

October 2024 - December 2024

- Developed a phone control system to improve accessibility for users in noisy settings or with speech impairments.
- Applied Random Forest ML classifiers to infer commands, achieving **88%** accuracy during a live demonstration.
- Awarded **Best Project** in the course that offers an inclusive solution where audio-based systems are impractical.

## CERTIFICATIONS

**AWS** Certified Cloud Practitioner

July 2025

**Codepath** Intermediate Technical Interview Prep

January 2025 - May 2025

**Codepath** React Web Development Course

January 2025 - May 2025

**Google** Cloud Digital Leader

July 2024