Khushi Gandhi

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EDUCATION

University of Massachusetts, Amherst Massachusetts Expected: December 2025
Masters of Science in Computer Science **CGPA: 4/4**

- **Relevant Coursework:** Database Design, Machine Learning, 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, Python, JavaScript, SQL, NoSQL, GraphQL
Frameworks & Tools: Spring Boot, React, Vue, OpenAI SDK, LangGraph, CI/CD Pipelines
Cloud & Systems: AWS, Systems Design, Microservices, Distributed Systems, Database Architecture
AI Technologies: LLM Integration, AI Agents, MCP Protocol, Prompt Engineering

EXPERIENCE

Software Developer Intern | Interactive Brokers - Connecticut, US June 2025 – August 2025

- Rebuilt front-end navigation for Sales Portal, an internal tool for sales reps to manage their clients and sales, by designing an automated breadcrumb system that removed **400+** lines of legacy code and improved maintainability.
- Built reusable components for dashboard, providing users a unified, real-time view of their accounts and contacts.
- Enhanced application responsiveness by resolving **7** critical user-reported issues using Vue and JavaScript.

Software Developer | Deutsche Bank - Pune, India July 2022 – August 2024

- Collaborated with over 50 members of cross-functional teams in an agile environment to deliver a scalable fintech application that generated alerts to detect and report any anomalies during the onboarding of banking clients.
- Improved data job uptime by **30%** by designing a fallback mechanism in workflows to handle third-party service disruptions.
- Reduced manual efforts by **40%** by automating report generation with a cron job that fetched alerts 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

PersonaGPT : AI Powered Resume | Python, OpenAI Library ↗ July 2025 - August 2025

- Developed an AI-powered resume that answers any technical and behavioral questions based on candidate profile data.
- Integrated **OpenAI** library with Gemini 2.0 Flash, for real-time responses along with implementing rate-limiting safeguards.
- Automated follow-up by triggering Supabase edge functions via webhooks to send personalized emails upon interest detection.

IMDB Query Engine | Java, SpringBoot, Maven ↗ January 2025 - April 2025

- Reduced disk I/O in a relational query engine for **70M+** records by developing a custom LRU-based buffer manager.
- Achieved **100×** query speedup by implementing a B+ Tree index to improve clustered and unclustered searches.
- Built a query executor for 3 relational tables by designing selection, projection, materialization, and **BNL** joins operators.

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