Ritika Deshpande

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EDUCATION

Columbia University, Masters in Computer Science **| New York, USA | GPA: 3.9** Dec 2024
- Courses: Cloud Computing and Big Data, Advance Software Engineering, Programming Languages and Translators, Databases, Applied Machine Learning, NLP, Advance Databases, Data Visualization.

University of Pune, Bachelors in Computer Engineering **| Pune, India | GPA: 3.9** Aug 2021
- Courses: OOP, Databases, Data Structures and Algorithms, ML, Advance Algorithms, Computer Networks.
- Activities: Member of ACM, Smart India Hackathon Winner 2020, President of Rotaract Club.

EXPERIENCE

Deutsche Bank Pvt. Ltd. Pune, India Software Engineer **| Spotlight Award** Aug 2022 – Jun 2023
- Integrated fault-tolerant APIs in Java, resolving defects promptly for 100% customer satisfaction. Authored technical documentation, improving collaboration and reducing development time.
- Analyzed workflow within distributed systems, identifying opportunities for optimization, increasing system efficiency, and implementing quality assurance measures and enhancing security protocols.
- Orchestrated seamless interactions with diverse teams, delivering exceptional code quality and surpassing task completion goals by 98%. Revolutionized task management with agile methodologies, incorporating continuous integration and delivery (CI/CD) for faster testing, guaranteeing swift adaptability.

Deutsche Bank Pvt. Ltd. Pune, India Full Stack Developer **| DB Cloud Engineer** July 2021 – July 2022
- Developed a checks and audit tool for ordering controls within the PTC squad, utilizing backend restful APIs.
- Designed a full stack reinforcement learning-based Chatbot, reducing manual intervention by 40% and improving issue resolution rates for the L2 team. Completed GCP training, showcasing cloud expertise
- Managed a centralized Oracle database, ensuring data accuracy, integrity, and accessibility. Automated email triggers for critical task reminders using constructed shell scripts potentially leading to faster customer support.

AirMed Solutions Pune, India Android Developer Intern May 2020 – July 2020
- Collaborated closely with development team for capturing vital data and storing in HL7 format in database.
- Created responsive and intuitive UI components, help enhance overall user experience by 80% for ongoing healthcare product in Android studio.

PROJECTS

Trivia.ai Knowledge Assessment Tool SBU MLH 2024 Feb 2024
- Developed trivia.ai, a knowledge assessment tool utilizing Google's PaLM2 LLM model, achieving a 95% quiz accuracy.
- Applied a serverless architecture on Google Cloud Platform (GCP), reducing infrastructure costs by 40% while handling a 50% increase in user traffic.
- Led cross-functional collaboration, delivering the end-to-end product within a 3-days timeframe, and achieving a 99% user satisfaction rating.

GitGlance Github Contribution Discovery App Nov 2023
- Engineered a serverless cloud architecture using AWS Lambda, API Gateway, SQS, and Kinesis to optimize user interactions, reducing latency by 40% and enhancing scalability for 10K+ concurrent users.
- Utilized S3 for scalable and secure storage, gaining hands-on experience in configuring and optimizing AWS services for seamless project execution.

DBCon Tool to Convert Conventional Database to Graph Databases Jul 2021
- Leveraged Python libraries for 99% data consistency in extracting metadata and records from the source database.
- Oversaw the migration of data to Neo4j, prioritizing data integrity and cost reduction. Led project planning, team coordination, and responsibilities assignment.

Voice-based Prescription Bajaj Finserv Health Ltd | Smart India Hackathon 2020 Aug 2020
- Led the winning team among 8 final contenders, with around 2 million student participation. Integrated Google Speech-to-text for accurate transcription of doctors' words.
- Modelled text extraction and NLP techniques to ensure 90% precision in prescription content. Enforced smart recommendations based on entered data. Performed data analysis on dataset of 15,000 medicines.

SKILLS

Programming Languages	Java, Python, SQL, C++, HTML5/CSS, JavaScript, React, Unix, Shell, Kotlin, Typescript, XML
Databases	Oracle, MySQL, MongoDB, Neo4j, Firebase, NoSQL, PLSQL, SQL Server, Elasticsearch
Other Tools	SpringBoot, GitHub, Bitbucket, Android, JIRA, Agile, Postman, Machine Learning, Natural Language Processing, Cloud Computing, AWS, Google Cloud Platform, Amazon Web Services, Docker, Kubernetes, Information Retrieval, Information Extraction, Web Search, Deep Learning, AI, Testing, Apache Kafka