

RAKSHITHA NAGARAJ

Software Engineer, USA

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SUMMARY

Bringing in 6+ years of grounded experience in providing technical solutions for enterprise, consumer software, web applications & AI. Skilled in crafting scalable systems using Java, Python, and C#, with a focus on clean architecture, performance, and practical delivery. Comfortable wearing multiple hats from writing innovative backend logic one day to leading code reviews the next, all while staying committed to clarity in code and collaboration in teams.

AREAS OF EXPERTISE

- Full Stack application Design
- Backend Development
- Frontend Development
- Microservices Architecture
- Service Oriented Architecture
- Database Management
- Cloud native applications
- Object Oriented Programming
- Artificial Intelligence (AI)
- Code Review & Mentorship
- Cross-Functional Collaboration
- Problem Solving

KEY ACHIEVEMENTS

- Faced with testing cycles requiring 4–5 testers lasting over a month, spearheaded a Python-based API automation framework that reduced regression time by 70% and cut resource need to just one per cycle.
- Challenged by outdated legacy architecture, led full-stack modernization using emerging technologies that are AWS compliant to enhance system responsiveness and completed migration 2 months ahead of schedule & 98% accuracy.
- Recognized for outstanding contributions with multiple awards, including the ACE (Accenture Excellence Award) for accomplishing delivering automation framework within 3 months.
- Awarded with several SPOT & Applause Awards at Deloitte for handling and managing 3 major feature releases.

PROFESSIONAL EXPERIENCE

Texas Tech University, Texas, USA : Graduate Assistant

Oct 2024 – May 2025

- Tasked with managing large-scale academic data, developed secure ASP.NET (C#), JavaScript applications handling 100,000+ student and employee records with high reliability.
- Pioneered the redesign of a university data warehouse using SQL Server, improving data modeling efficiency and reducing report generation time by 40%.

Texas Tech University, Texas, USA : Research Assistant

Jan 2024 – May 2024

- Orchestrated responsive frontends and robust backend modules (HTML, JavaScript, C#, CSS) for internal academic platforms that is usable by 1200+ faculty and students. multi-user environments.

Deloitte Consulting Pvt Ltd, India : Software Engineering Consultant

Nov 2019 – Jul 2023

- Revamped scalable backend services and APIs using Java, Spring Boot, PostgreSQL for a high-traffic platform ensuring low latency and high availability for 1M+ users.
- Integrated a Tomcat-deployed policy-based rule engine into the core backend and React UI, enabling 30+ seamless feature rollouts with minimal regression issues under 2%.
- Collaborated with product managers, analysts and design team to assess requirements, conduct design reviews, and estimate budgets for 10+ scalable features.
- Investigated and resolved 50+ critical production issues using system troubleshooting debugging and log analysis, improving platform uptime and reducing incident handling recurrence by 35%.
- Mentored junior developers through code reviews and introduced structured unit testing practices, reducing post-development bugs and improving coding standards by 20%.

Accenture Solutions Pvt Ltd, India : Software Engineer

Mar 2017 – Nov 2019

- Refactored Java microservices with Oracle DB, enhancing code maintainability and aligning implementations with evolving technical design standards successfully across 28+ major releases.
- Overhauled project completion by keeping communication fluid between development, QA, and client teams ensuring every release met its deadline achieving 100% on time delivery.
- Resolved recurring database performance issues by rewriting inefficient SQL logic, resulting in a performance boost of 15% during peak loads.
- Enhanced technical feasibility and driving planning for 10+ new product features, ensuring timely and efficient development execution.
- Implemented and monitored QA processes across releases, contributing to improved product stability and a 25%+ increase in quality assurance coverage.

EDUCATION

Texas Tech University, Master's in Computer Science

Graduated May 2025

Edward E. Whitacre Jr. College of Engineering

PROJECTS

RAG ChatBot

- Built a context-aware RAG chatbot to assist users in querying large documents efficiently during internal data exploration, integrated with LangChain, FAISS, and OpenAI embeddings within a Jupyter Notebook, improving retrieval speed and accuracy by 40% over naive keyword search.

Fairness News Recommendation Algorithm

- Tackled bias in news recommendation by preprocessing large-scale datasets and implementing a GAN-based fairness-aware engine using NumPy and NLTK, resulting in a 92% accuracy in improved user trust.

Test Ranker

- Developed a test case prioritization tool using SVM to identify failure-prone cases early in the QA cycle, with Docker containerization for continuous integration achieving 94.3% accuracy and cutting manual testing time by 50%.

TECHNICAL SKILLS

Programming Language, Tools & Platforms: Java, Python, C#, Node.js, Spring Boot, Django, ASP.NET, HTML/CSS, JavaScript, MySQL, PostgreSQL, Oracle PL/SQL, AWS, Docker, Kubernetes, Jenkins, version control with Git, SOAP, REST APIs, JSON, XML, Visual Studio, Eclipse, IntelliJ, JIRA, SonarQube, Agile, Windows, Powershell, Postman, GCP