

# VARSHA THONDALAPALLY

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Results-oriented Software Engineer with over 3 years of experience designing and delivering scalable, secure, and high-performance software solutions. Proficient in Java, Spring Boot, React, and AWS, with expertise in building RESTful APIs, microservices, and CI/CD pipelines. Adept at driving cross-functional collaboration in Agile teams to achieve timely and robust project outcomes.

## EDUCATION

**UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE**, Charlotte, NC

Jan 2023 - May 2024

Master of Computer Science

• **Coursework:** Algorithms, Cloud Computing, Database Systems, Machine Learning, Web Development

## SKILLS

**Programming and Scripting:** Java, JavaScript (TypeScript), Python, C/C++, SQL, Shell Scripting

**Backend Technologies:** Spring Boot, Microservices, RESTful APIs, Node.js, Hibernate

**Frontend Technologies:** Angular, React, HTML5, CSS3, Bootstrap, Redux

**Cloud and DevOps:** AWS (EC2, S3, Lambda), Azure, Jenkins, Docker, Kubernetes, Terraform, CI/CD, Git

**Database:** MySQL, PostgreSQL, MongoDB, Redis, Cassandra

**Security and IAM:** CyberArk, OAuth 2.0, SSO, MFA, Active Directory, JWT, RBAC, SSL/TLS

**Project Management & Agile:** Agile (Scrum, Kanban), SDLC, Jira

**Testing and Version Control:** JUnit, Mockito, Postman, Maven, Gradle

## PROFESSIONAL EXPERIENCE

**PWC US**

Sep 2021 - Jan 2023

**Software Engineer**

- Built Java Spring Boot backend with RESTful APIs/microservices, enabling efficient fault-tolerant workflows for transactions.
- Crafted dynamic UIs using React, implementing reusable components and achieving seamless user experiences across devices.
- Architected AWS cloud-native systems (EC2, Lambda, RDS) processing millions of transactions daily with seamless integration.
- Designed CI/CD pipelines via Jenkins, Docker, and Kubernetes, automating build, testing, deployment for rapid development.
- Optimized terabyte-scale AWS S3 and DynamoDB data strategies for real-time access, improving storage retrieval efficiency.
- Diagnosed and resolved production issues through root cause analysis and debugging, ensuring system stability and reliability.
- Authored API docs/system designs, expediting developer onboarding, fostering collaboration, and speeding up project delivery.

**DXC TECHNOLOGY**

Dec 2020 - Sep 2021

**Associate Software Engineer**

- Built secure REST APIs in Spring Boot for healthcare data, using OAuth2 and integrating seamlessly with third-party systems.
- Optimized backend services with advanced data structures, enhancing responsiveness for real-time, data-heavy operations.
- Engineered scalable database solutions by tuning SQL queries and optimizing indexes for rapid retrieval in enterprise systems.
- Created modular Angular/Bootstrap UI components, ensuring cross-platform responsiveness and WCAG-aligned accessibility.
- Automated CI/CD with Jenkins and Docker, accelerating builds, tests, deployments, and promoting continuous delivery.
- Delivered features in Agile sprints, collaborating cross-functionally to solve complex challenges and meet deadlines effectively.

## PROJECTS

**Distributed E-Commerce Platform**

Sep 2024 - Present

- Developed an e-commerce system in Spring Boot, and MongoDB, integrating load balancing for high availability and resilience.
- Optimized search with advanced sorting algorithms, improving query performance and ensuring accurate user search results.

**Identity-Based Access Control Dashboard**

July 2024 - Sep 2024

- Created IAM dashboard in React, Node.js, and MongoDB, with RBAC and JWT to manage permissions and simplify reporting.
- Delivered real-time monitoring user interface, aiding adherence to security standards and providing user-friendly insights.

**Secure Collaboration Platform**

June 2024 - July 2024

- Built Angular, Java, AWS S3 platform with OAuth2/JWT, ensuring uptime and reducing unauthorized access via access controls.
- Designed IAM-based permissions for fine-grained user access, enhancing security and simplifying permission management.

## CERTIFICATIONS

- AWS Certified Solutions Architect – Associate
- CyberArk Defender - Privileged Access Management (PAM)