

SUMMARY

Graduate student in Computer Science with 2+ years of experience in designing scalable distributed systems and efficient software solutions. Strong in algorithms and data structures, with a focus on innovation and user-centric design. Eager to contribute to dynamic teams that prioritize creativity, collaboration, and growth.

EXPERIENCE

- Graduate Fellow / Graduate Student Worker

BwTech@UMBC

Aug 2022 - May 2023

Baltimore, MD

- UI Design & Backend Development:** Developed a user-friendly interface using Angular, HTML, and CSS, and built backend services with Node.js to enhance user interaction and system integration.
 - Pitch:** Presented 'Virtual Apprentice' at TEDx, receiving insightful feedback and enhancing visibility.
- Software Developer

UST

Sept 2021 - Jun 2022

Bangalore, India

- Payment Module:** Led the development of a payment module using Kafka for event streaming, Java for core functionality, and Saga orchestration for managing distributed transactions. Ensured system reliability and data consistency.
 - Microservices:** Designed and implemented microservices with Spring Boot to enhance system scalability and modularity. Improved REST API integration using JSON for seamless and efficient data exchange between services.
 - Accuracy Improvement:** Increased inventory accuracy by 25% via robust integration of REST APIs.
 - Automated Testing:** Led the implementation of automated testing frameworks with Selenium and TDD, using JUnit and Mockito, reducing manual efforts by 75% and increasing productivity by 20%.
 - Agile Methodologies:** Spearheaded SDLC methodologies to shorten release cycles, decrease time-to-market by 30%, and enhance team efficiency by 25%.
- Analyst Intern

Fidelity National Financial

Apr 2021 - Aug 2021

Bangalore, India

- Data Conversion Project:** Played a key role in cloud migration, addressing bugs with Java and SQL. Enhanced data quality by 50% and reduced errors by 25% through targeted improvements.
 - Data Extraction:** Developed a Java-based data extraction solution, reducing extraction time by 30%.
 - Performance Enhancement:** Enhanced performance with optimized Java code and Hibernate, reducing crashes by 40% and improving response time by 25%.
 - CI/CD:** Implemented CI/CD pipelines with Jenkins, Docker, Kubernetes, and YAML for configuration, resulting in a 20% reduction in deployment time and streamlined release processes.

SKILLS SUMMARY

- Programming Languages:** JavaScript, TypeScript, C, C++,C#, Python, Java
- Web Development:** Angular, Spring Boot, REST-API, HTML/HTML5, CSS/CSS3, jQuery, SOAP-XML, Node.js,
- Quality Assurance:** Selenium, TestNG, TDD, BDD, JUnit Cucumber, Postman
- Data Management & Analysis:** PostgreSQL, SQL, Oracle, MongoDB, Data Analysis, Kafka
- Agile Development:** Agile Methodologies (Scrum/Kanban), SDLC, Jira, Git
- Tools & Frameworks:** Docker, Kubernetes, Azure, AWS, Maven, Hibernate, Jenkins, React.js, AJAX

PROJECTS

- Microservice Architecture for E-commerce Platform:** Engineered a microservice-based architecture for an e-commerce platform, enhancing scalability and maintainability. Implemented services for user management, product catalogue, and order processing using Spring Boot and Docker, with seamless API integrations and improved system performance. **Tech:** Java, Spring Boot, Docker, REST APIs
- Peer-to-Peer Secured File System:** Engineered a high-performance peer-to-peer file-sharing system that outperformed other submissions by more than 3 times in benchmark tests. Implemented encryption with RSA to ensure data security and privacy. Deployed on Linux, demonstrating expertise in distributed systems. **Tech:** Java, Encryption, RSA, Linux, Distributed Systems

EDUCATION

- University of Maryland Baltimore County

Maryland, USA

Master of Science - Computer Science

Aug 2022 - May 2024
- Amrita Vishwa Vidyapeetham University

Kollam, India

Bachelor of Engineering - Computer Science

Jul 2017 - Jul 2021

PUBLICATIONS

- Remote Medical Assistance for Marine Fishermen through OceanNet:** 2021 12th International Conference on Computing Communication and Networking Technologies (ICCCNT), Kharagpur, India, 2021, pp. 1-5. doi: 10.1109/ICCCNT51525.2021.9579678.