Yash Ananta Zode

(414) 736-7662 | zodeyash98@gmail.com | yashzode.github.io | https://www.linkedin.com/in/yashzode/

PROFESSIONAL EXPERIENCE

Software Engineer, *University of Wisconsin-Milwaukee*   *Sept 2023 – Present*

- Accomplished 25% improvement in backend reliability, as measured by 30% reduction in data synchronization delays, by implementing Java Multithreading, Exception Handling, and third-party API integrations.
- Achieved 35% reduction in deployment times and 20% reduction in downtime, by designing microservices architecture with Spring Boot, Docker, and Kubernetes, and automating CI/CD pipelines with Jenkins.
- Ensured 90% test coverage and 30% reduction in production defects, by developing reusable components using Singleton and Observer patterns, and leveraging JUnit and Mockito.
- Strengthened system security and scalability, as measured by improved LDAP authentication and load balancing strategies, by integrating Nginx web server.
- Optimized testing and performance by developing an automation framework with Selenium and Page Object Model, performing REST API automation with Rest Assured and TestNG, and executing performance testing using JMeter and Gatling, improving overall system stability by 25% and reducing manual testing efforts by 40%.

Junior Software Engineer, Cognizant Technology Solutions   *Nov 2022 – Aug 2023*

- Accomplished 99.99% uptime and reduced fraud rates by 15%, as measured by secure, high-performance payment processing for 2M+ daily transactions, by implementing Java, Spring Boot, RESTful APIs, and two-factor authentication.
- Improved backend performance by 20%, as measured by faster real-time payment processing, by optimizing data structures, multithreading, and Factory design patterns.
- Enhanced frontend user experience by fixing 20+ critical bugs, as measured by improved UI responsiveness, by resolving issues in Angular and React, and automating CI/CD pipelines with Jenkins.
- Reduced query execution time by 25%, as measured by improved relational data performance, by leveraging JPA and Hibernate for database persistence.
- Implemented CI integration with Jenkins, streamlining development pipelines and reducing deployment time.

Junior Software Engineer, Comau   *Oct 2020 - Nov 2022*

- Accomplished 25% boost in system scalability, as measured by 30% optimization in message reliability, by developing and deploying 20+ scalable Java Spring Boot applications and RabbitMQ message queues.
- Achieved 20% reduction in UI load times, as measured by faster frontend performance, by creating reusable React and Angular components and resolving performance bottlenecks.
- Attained 99.95% system uptime, as measured by seamless deployment and real-time monitoring, by automating CI/CD pipelines with Jenkins and Docker, integrating OPCDA and OPCUA servers, and monitoring Apache and Nginx servers with Prometheus and Grafana.
- Reduced code redundancy by 15% by optimizing design efficiency with Singleton and Factory patterns in Java.
- Developed and implemented REST API automation using Rest Assured and TestNG, reducing API failures by 35%.
- Built an automation framework using Selenium and Page Object Model, streamlining UI testing and increasing efficiency by 40%.

EDUCATION

Master of Science, Computer Science, *University of Wisconsin-Milwaukee*   *May 2025*

- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Software Development Lifecycle
- **Achievements:** Graduate Teaching Assistant, Awarded the Chancellor's Graduate Student Award.

PROJECT EXPERIENCE

CloudEduTrack: Accessible Online Quiz Platform

- Led the design and development of a voice-activated quiz platform using Java Spring Boot and Angular, significantly improving accessibility (95%) for visually and motor-impaired users.
- Increased user engagement by 40% by implementing adaptive UI themes and advanced speech recognition.
- Managed platform scalability and reliability by deploying services on AWS and Azure using Docker and Kubernetes.

IOT Web platform for Plant Control and Monitor

- Improved manufacturing efficiency by 40% through development of microservices-based MES platform with real-time monitoring using Java Spring Boot and REST APIs.
- Enhanced data storage efficiency by 25% through MongoDB and PostgreSQL integration.
- Facilitated seamless system integration by directly collaborating with customers, resolving 90% of issues during deployment

TECHNICAL SKILLS

- **Programming Languages**: Java, C++, Python
- **Frameworks & Libraries**: Spring Boot, Flask, Django, Angular, React
- **Automation & Testing:** Selenium, Appium, Sauce Labs, Rest Assured, TestNG, JMeter, Gatling
- **Cloud & DevOps**: AWS, Azure, Docker, Kubernetes, Jenkins, CI/CD
- **Databases & Messaging:** PostgreSQL, MongoDB, MySQL, SQL Server, CosmosDB, Cassandra, RabbitMQ, Kafka, JDBC
- **Monitoring & Observability**: Prometheus, Grafana
- **Networking & Security**: LDAP, Load Balancing, Apache, Nginx
- **Development Tools & Source Control:** Git, GitHub, Agile Methodology, Android Studio
- **Microservices & Automation:** Page Object Model, REST API Automation, CI Integration, Performance Testing