YASH ANANTA ZODE

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

EXPERIENCE

Graduate Teaching Assistant, *University of Wisconsin-Milwaukee, Milwaukee, WI*   August 2024 – Present
- Assisted in teaching Object Oriented Programming in Java
- Enhanced student engagement by 40% and understanding by 20% through innovative course materials.
- Led Java lab sessions, resulting in a 25% increase in lab performance scores.

Software Engineer, Cognizant*, Pune, India*   November 2022 - August 2023
- Improved performance and reliability of Spring Boot based micro services, optimizing Java backend processes.
- Developed microservices using Java and Spring Boot, reducing deployment cycles by 20% and enhancing scalability.
- Deployed cloud services on AWS (EC2, S3, Lambda), reducing downtime by 15%.
- Streamlined CI/CD pipelines with Docker, Jenkins, and Git, boosting deployment efficiency by 20%.
- Collaborated with frontend teams to integrate backend services with Angular, improving communication between systems.

Software Engineer*, Comau, Pune, India*   October 2020 - November 2022
- Developed Java based monolithic applications and RESTful APIs using Spring Boot for large-scale projects.
- Automated API testing using Postman, Selenium, and Python scripts to improve testing efficiency and accuracy.
- Deployed applications and resolved production issues at client locations (Fiat and Mahindra).
- Participated in Agile processes, including sprint planning, standups, and retrospectives for continuous improvement.
- Collaborated with cross-functional teams to fix bugs and optimize system performance during production deployment.

EDUCATION

Master of Science in Computer Science, *University of Wisconsin-Milwaukee, Milwaukee, WI*   May 2025
Coursework: Natural Language Processing, Data Structures and Algorithms, Machine Learning, Cloud Computing, Software Defined Networking, Intelligent User Interfaces, Computational Models of Decision Making.

AWARDS & CERTIFICATIONS
- Red Hat Certified System Administrator (RHCSA)
- Building Scalable Java Microservices with Spring Boot and Spring Cloud (Courser)
- Publication: Card Payment Using Three-Way Security (Journal: JETIR, February 2020)
- Copyright: Examination Paper Setter Automation System (Registration Number: SW-12888/2019)

RELEVANT ACADEMIC PROJECTS

Image Classification Using Convolutional Neural Network (CNN)
- Built a Python based CNN model for classifying images, achieving 97.34% training accuracy and 89.45% test accuracy.
- Leveraged Python libraries (TensorFlow, Keras) to implement EfficientNetV2S, reducing model over fitting and improving generalization.
- Evaluated model performance using confusion matrices to resolve misclassifications.

Sentiment Analysis Using DistilBERT
- Developed and fine-tuned a Python based DistilBERT model for binary sentiment classification, achieving 80.9% test accuracy.
- Pre-processed large datasets using Python libraries (Pandas, Numpy) for tokenization and attention masking, optimizing inputs for higher accuracy.
- Analyzed results using confusion matrices to improve sentiment prediction accuracy.

CloudEduTrack: Accessible Online Quiz System
- Engineered a voice-activated quiz platform using Angular, Java, and Spring Boot, featuring customizable themes and text resizing for enhanced accessibility, improving user satisfaction by 30%.
- Integrated Web Speech API for voice recognition and synthesis, enabling hands-free navigation and real-time activity monitoring to ensure examination integrity.
- Deployed the system on a Linux server (AWS) with optimized Apache configurations, providing a scalable, user-friendly interface, increasing engagement by 20%.

SKILLS
- **Programming Languages:** Java, Python, C++, Typescript
- **Frameworks & Libraries:** Spring Boot, Angular, Node.js, TensorFlow, PyTorch, Scikit-learn, Selenium
- **Cloud Platforms**: AWS (EC2, S3, Lambda, SageMaker), Microsoft Azure, Docker, Kubernetes, CI/CD Pipelines, Jenkins.
- **Big Data & Data Analytics**: Hadoop, Spark, MySQL, PostgreSQL, SQL Server
- **Web Development**: JavaScript, Angular, React, Flask, HTML, CSS
- **Automation Testing Tools**: Postman, Selenium, JUnit, Robot Framework