YASH ANANTA ZODE

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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 microservices, 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
- Scientific Computing with Python – freeCodeCamp
- MTA: Introduction to Programming Using Python – Microsoft
- Neural Networks and Convolutional Neural Networks Essential Training – LinkedIn
- Publication: Card Payment Using Three-Way Security (Journal: JETIR, February 2020)
- Copyright: Examination Paper Setter Automation System (Registration Number: SW-12888/2019)
- Red Hat Certified System Administrator (RHCSA)

RELEVANT ACADEMIC PROJECTS

Image Classification Using Convolutional Neural Network (CNN)
- Developed two CNN models, achieving 97.34% training accuracy and 89.45% test accuracy.
- Used EfficientNetV2S to enhance model generalization and reduce overfitting.
- Evaluated model performance using confusion matrices to resolve misclassifications.

Sentiment Analysis Using DistilBERT
- Trained and fine-tuned the DistilBERT model for binary sentiment classification, achieving 80.9% test accuracy.
- Applied tokenization and attention masking techniques for input preprocessing.
- Analyzed results using confusion matrices to improve sentiment prediction accuracy.

CloudEduTrack: Accessible Online Quiz System
- Developed a voice-activated online quiz platform using Angular , Java, Spring Boot, to improve accessibility for motor and visually impaired users.
- Enhanced the user interface for visually impaired users, improving interaction speed by 30%.
- Analyzed user engagement, leading to a 20% improvement in interaction rates.

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