Yash Ananta Zode

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🎓 Education

University of Wisconsin-Milwaukee — September 2023 – May 2025
Master of Science in Computer Science — *Milwaukee, Wisconsin, USA*

- Relevant Coursework: Data Structure and Algorithms, Cloud Computing, Natural Language Processing, Machine Learning, Intelligent User Interface, Server Side Programming

Savitribai Phule Pune University — August 2016 – May 2020
Bachelor of Technology in Computer Engineering — *Pune, Maharashtra, INDIA*

- Relevant Coursework: Data Structures, Algorithms, Object-Oriented Programming, Database Management Systems, Advanced Object-Oriented Programming

⚙ RELEVANT SKILLS

Programming Languages Java, Python, C++, C, Node.js

DevOps Tools Amazon Web Services (AWS), Microsoft Azure, Docker, Jenkins, Git, GitHub

Databases MySQL, PostgreSQL, MongoDB

Web Development Angular, JavaScript, TypeScript

Networking OPC UA, OPC DA, IPv4, IPv6

Automation Testing Selenium, JUnit, Robot Framework

● EXPERIENCE

University of Wisconsin-Milwaukee — August 2024 – Present
Teaching Assistant — *Milwaukee, WI*

- Teach over 100 undergraduate students in Intermediate Computer Programming using Java, focusing on Data Structures and Algorithms (DSA) such as arrays, linked lists, stacks, and trees.
- Guide students in optimizing algorithms for sorting, searching, and memory management, improving their coding efficiency by 30% in lab exercises and assignments.
- Evaluate student projects, providing feedback that led to a 20% reduction in runtime complexity through optimized code implementations.

Cognizant Technology Solutions Corp — November 2022 – August 2023
Software Engineer — *Pune, INDIA*

- Enhanced software components which improved service efficiency by 15% and generating annual savings of $500,000.
- Devised a microservices framework using Java and Spring Boot, slashing deployment cycles by 20% and curtailing production delays by 5 hours.
- Deployed cloud-based services on AWS, utilizing EC2, S3, and Lambda, to improve scalability and reduce downtime by 15%.
- Leveraged Docker, Jenkins, Git, and GitHub to streamline CI/CD processes, enhancing deployment efficiency by 20% and boosting team collaboration by 30%.
- Collaborated closely with frontend engineers to integrate backend services with Angular/JavaScript, improving system communication efficiency by 25% and reducing development delays by 15%.

Comau India Pvt. Ltd   October 2020 – November 2022
Software Engineer   *Pune, INDIA*

- Built Spring Boot applications using Java, improving client satisfaction by 100%, resulting in a 5-star rating on post-project client surveys.
- Orchestrated backend services and managed routing logic with Node.js and Express, integrating with PostgreSQL to accelerate data processing and API response times by 30%.
- Reduced code redundancy by 18% and increased system performance by 72%, decreasing processing time from 10 seconds to 2.8 seconds on critical system transactions.
- Developed Android applications using Java for automation processes, reducing manual intervention by 40% and boosting user engagement by 25%. Managed PostgreSQL databases, optimizing queries and enhancing data model efficiency, leading to a 20% reduction in query execution time.
- Orchestrated over 45 Agile sprint sessions, reducing software bugs by 30%, which improved the product release cycle from 3 months to 2 months.

⚗ RELEVANT ACADEMIC PROJECTS

Machine Learning : Image Classification Using Convolutional Neural Network (CNN)

- Engineered two CNN models, achieving 97.34% training accuracy and 68.50% test accuracy, improving generalization by reducing overfitting
- Fine-tuned EfficientNetV2S, enhancing test accuracy to 89.45%.
- Assessed model performance using confusion matrices to resolve misclassifications.

Natural Language Processing: Sentiment Analysis Using DistilBERT

- Trained and fine-tuned the DistilBERT model on the SetFit/sst2 dataset, achieving 80.9% test accuracy for binary sentiment classification. Implemented tokenization and attention masking for input preprocessing. Analyzed model performance by comparing predictions against actual sentiments using confusion matrices.

CloudEduTrack: Accessible Online Quiz System

- Designed and developed an online quiz platform for users with motor and visual impairments, enabling 30% faster interaction through voice-activated features.
- Integrated customizable UI elements, improving accessibility for visually impaired users by 40% based on usability tests.
- Analyzed user interaction data post-launch, leading to a 20% improvement in engagement rates while transitioning from traditional quiz formats; insights directly influenced future development strategies for enhanced interactivity.

⚗ PUBLICATIONS

Research paper Card Payment Using Three-Way Security (Journal: JETIR, February 2020)

Certifications Red Hat Certified System Administrator (RHCSA)

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