





# Yash Ananta Zode

 [yashzode.github.io](https://github.com/yashzode)  
</> [/u/yashzode](https://github.com/yashzode)  
in [/in/yashzode](https://github.com/yashzode)

 414-736-7662  
 [zodeyash98@gmail.com](mailto:zodeyash98@gmail.com)  
 [/YashZode](https://github.com/YashZode)

## Education

### University of Wisconsin-Milwaukee

*Master of Science in Computer Science*

September 2023 – May 2025

*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

*Bachelor of Technology in Computer Engineering*

August 2016 – May 2020

*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

*Teaching Assistant*

August 2024 – Present

*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

*Software Engineer*

November 2022 – August 2023

*Pune, INDIA*

- Enhanced software components for Mercedes Benz, improving service efficiency by 15% and generating annual savings of \$500,000.
- Designed a microservices architecture with Java and Spring Boot, reducing deployment time by 20%, and minimizing production delays by 5 hours per cycle.
- Deployed cloud-based services on AWS, utilizing EC2, S3, and Lambda, to improve scalability and reduce downtime by 15%.
- Collaborated closely with frontend engineers to integrate backend services with Angular/JavaScript frontend, ensuring seamless communication between systems and improving development efficiency.

### Comau India Pvt. Ltd

*Software Engineer*

October 2020 – November 2022

*Pune, INDIA*

- Built Spring Boot applications using Java, improving client satisfaction by 100%, resulting in a 5-star rating on post-project client surveys. Moreover Designed backend services and handled routing logic using Node.js and Express, integrating with PostgreSQL databases to enhance 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.
- 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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