

# SHIVAM MAHENDRAKUMAR DESALE

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## EDUCATION

### Master of Science in Computer Science

Expected May 2026

San Diego State University, California, USA

**Coursework:** Algorithm Analysis and Design, Machine Learning

### Bachelor of Engineering in Information Technology

May 2023

Pimpri Chinchwad College of Engineering, Pune, IN

**GPA:** 3.96 /4.00

**Coursework:** Data structures & Algorithms, Object Oriented Programming, Databases

## TECHNICAL SKILLS

### PROGRAMMING LANGUAGES:

C/C++, Python, JavaScript, SQL

### TECHNOLOGIES AND TOOLS:

Django, AWS, EC2, DynamoDB, S3, Lambda, Elasticsearch, ReactJS, Docker, Jenkins, Git, MySQL, MongoDB, PostgreSQL

## WORK EXPERIENCE

### Software Developer Trainee | KPIT, Pune, India

Sep 2023 – Jun 2024

- Spearheaded development of a Learning Management System (LMS) called KPIT Academy using Python, and Django, achieving 80% automation in training assignments based on employee competencies.
- Optimized system performance and scalability, enabling seamless handling of a 180% increase in the user base without performance degradation
- Automated unit tests using pytest and Jest, ensuring 95% test coverage across backend Django APIs and frontend React components.
- Collaborated closely with designers and product managers to overhaul the user interface, leading to a significant 33% increase in user satisfaction.
- Django, AWS, EC2, S3, Docker, Putty, Postman

### Framework Engineering Intern | Quantiphi, Mumbai, India

Jan 2023 – Jul 2023

- Completed comprehensive Udemy certifications in AWS, GCP, and other cloud services, which equipped the skills to leverage these platforms effectively.
- Played a key role in a healthcare project and utilized AWS services, including EC2, DynamoDB, S3, and Lambda. This effort resulted in a 30% reduction in operational costs, and improved data retrieval speeds by 50%.

### Full-Stack Development Intern | KPIT, Pune, India

Aug 2021 – Mar 2022

- Programmed a robust Learning Management System (LMS) with login and training request features; enhanced company training capabilities by 45% and increased user engagement by 50%.
- Optimized training request workflows through the implementation of Django's ORM, leading to a reduction in data entry errors by 25% and ensuring accurate tracking of over 1,000 training requests per quarter.

## ACADEMIC PROJECTS

### E-Commerce WebApp | Django, Bootstrap, Python, HTML/CSS, JavaScript, SQLite

- Designed a multi-faceted e-commerce platform leveraging Django Template, which integrated payment gateways and inventory management tools; the solution led to a 25% reduction in transaction processing time.
- Implemented robust product and order management via the Django admin interface and Django DRF.
- Incorporated user authentication and authorization for 50% more secure access control.

### Nutrition and Health Management Website | Django, Python, JavaScript, MySQL, Docker, Jenkins

- Engineered a comprehensive Health and Fitness website featuring a calorie counter and personalized exercise suggestions to enhance user health management.
- Developed and managed RESTful APIs for seamless integration with third-party services, enhancing functionality and user experience while improving backend processes and fault tolerance by 35%.
- Incorporated personalized training plans and fitness-related information, increasing user retention and satisfaction.
- Deployed the application on cloud platforms such as AWS, utilizing services including EC2, S3, and RDS for scalable and resilient backend infrastructure.

## CERTIFICATION

- AWS Certified Solutions Architect - Associate:** Validation Number: 0YPRVP1201Q4QT3