

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, Principle of Data Science

Bachelor of Engineering in Information Technology

May 2023

Pimpri Chinchwad College of Engineering, Pune, IN (GPA: 3.96/4.00)

Coursework: Cloud Computing, Object Oriented Programming, Advanced Databases, Computer Networks

TECHNICAL SKILLS

PROGRAMMING LANGUAGES:

C/C++, Python, JavaScript, Go, Java, SQL

TECHNOLOGIES AND TOOLS:

Django, Node, React, Angular, Express, AWS, EC2, DynamoDB, S3, Lambda
Elasticsearch, Docker, Kubernetes, MySQL, MongoDB, PostgreSQL, Power BI

DEVOPS:

Docker, Kubernetes, Jenkins, Git, JIRA, Scrum, Agile

WORK EXPERIENCE

Software Developer Trainee | KPIT, Pune, India

Sep 2023 – Jun 2024

- Built a Learning Management System (LMS) tool called KPIT Academy using Python, Django, and Nginx 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 by using Nginx.
- 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 using React, leading to a significant 33% increase in user satisfaction.

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%.
- Orchestrated containerized healthcare applications with Kubernetes on Linux, enhancing reliability and scalability by 65% in patient data management.

Full-Stack Development Intern | KPIT, Pune, India

Aug 2021 – Mar 2022

- Programmed a robust training tool called EduOnline with login and training request features; enhanced company training capabilities by 45% and increased user engagement by 50%.
- Teamed up with cross-functional groups, cutting development time by 40% and boosting project quality by 30%.
- Utilized Power BI and Excel for data extraction and analysis, reducing operation time by 140%.
- Optimized training request workflows by implementing Django's ORM, reducing data entry errors by 25% and ensuring accurate tracking of over 1,000 training requests per quarter.

ACADEMIC PROJECTS

E-Commerce WebApp ([Website](#)) | Django, Bootstrap, Python, jQuery, 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 Pagination, Serialization, user authentication and authorization for secure access control.

Nutrition and Health Management Website ([Website](#)) | React, REST APIs, Django, Python, MySQL, Docker, AWS

- 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%.
- 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