# SHIVAM MAHENDRAKUMAR DESALE

San Diego, USA

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## Summary

Software Engineer with expertise in full-stack development, cloud computing, and DevOps, skilled in Python, Django, Node.js, React, Docker and AWS. Proven track record of building scalable applications, automating workflows, and enhancing user experience. AWS Certified Solutions Architect Associate with a passion for innovation and problem-solving.

## EDUCATION

**San Diego State University, California, USA**                                                **Aug 2024 - Mar 2026**
*Master of Science, Computer Science*  (GPA: 3.67/4.00)
- **Coursework:** Algorithm Analysis and Design, Machine Learning, Data Science, Web & Application Development

**Savitribai Phule Pune University, MH, India**                                                **Aug 2019 - May 2023**
*Bachelor of Engineering, Information Technology*  (GPA: 3.96/4.00)
- **Coursework:** Cloud Computing, Object Oriented Programming, Advanced Databases, Computer Networks, Artificial Intelligence

## WORK EXPERIENCE

**KPIT**  |  *Software Engineer*                                                **Sep 2023 - Jun 2024**
- Designed and developed the automated training assignment module within KPIT Academy, leveraging Python and Django to align learning paths with employee competencies, achieving 80% automation in training workflows.
- Utilized Redis to cache user progress for course completion, reducing database queries by 60% and improving page load times, ensuring a seamless experience as the platform scaled to accommodate a 180% increase in active users.
- Automated tests with pytest and Jest to verify course completion points were recorded via Django APIs, validated UI updates, and ensured 95% test coverage with data consistency.
- Collaborated closely with frontend developers and product managers to overhaul the user interface using React, leading to a significant 33% increase in user satisfaction.

**Quantiphi**  |  *Platform Engineering Intern*                                                **Jan 2023 - Jul 2023**
- Implemented RESTful APIs with Node.js and Express, integrating JWT-based authentication and improving data access security for healthcare applications.
- Integrated AWS services (EC2, DynamoDB, S3, and Lambda) to manage and process healthcare analytics data, optimizing real-time insights for doctors and reducing operational costs by 30%.
- Containerized and deployed patient data ingestion and processing services with Kubernetes on Linux, ensuring reliable scaling and reducing system downtime.

**KPIT**  |  *Full Stack Development Intern*                                                **Aug 2021 - Mar 2022**
- Developed and integrated a training request module for the EduOnline platform using Express and React, streamlining employee training enrollment and increasing user engagement by 50%.
- Teamed up with cross-functional groups, cutting development time, and boosting project quality by 40%.
- Optimized training request workflows using MongoDB with Mongoose, reducing data entry errors and ensuring accurate tracking of over 1,000 training requests per quarter.

## ACADEMIC PROJECTS

**Garment Worker Productivity Analysis**
- Performed EDA using Pandas, NumPy, and Matplotlib/Seaborn to analyze garment worker productivity trends.
- Preprocessed data, handling missing values, feature engineering, and outlier detection for dataset integrity.
- Created visualizations with Seaborn and Matplotlib to showcase productivity patterns and workload distribution.

**Bookstore Management System**
- Engineered a comprehensive bookstore management system using MongoDB, Express, React, and Node.js featuring user authentication.
- Implemented user authentication and role-based access control (RBAC) using JWT and bcrypt for secure access.

**E-Commerce WebApp**
- Built an e-commerce platform with Django, integrating payment gateways and inventory management.
- Optimized order management by leveraging Django Admin, pagination, and serialization, improving data handling.

## TECHNICAL SKILLS

- **PROGRAMMING LANGUAGES**: C/C++, Python, JavaScript, SQL, HTML, CSS, Java
- **TECHNOLOGIES AND TOOLS**: Node, React, Angular, Express, Django, AWS, EC2, DynamoDB, S3, Lambda, Redis, MySQL, MongoDB, PostgreSQL, SQLite, Power BI, ES6, Spring, Kafka
- **DEVOPS**: Docker, Kubernetes, Git, Jenkins, JIRA, Scrum, Agile
- **SOFT SKILLS**: Leadership & Initiative, Communication skills, Problem-Solving, Critical Thinking

## CERTIFICATION

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