SHUBHAM NARKHEDE

Software Developer

(208)- 617- 6566

shubhamvnarkhede@gmail.com

in LinkedIn GitHub

Summary

Software Developer with 3+ years of experience crafting high-performance applications that serve millions of users. Proficient at optimizing system architectures to achieve efficiency gains. Expertise in full-stack development, microservices, and cloud-native solutions. Skilled in leading technical initiatives while maintaining exceptional code quality and test coverage.

Skills

Methodologies: SDLC, Agile, Waterfall

Programming Languages: Python (Pandas, NumPy), C, C++, SQL

Frontend Development: HTML5, CSS3, JavaScript, TypeScript, React, Redux, Bootstrap, Tailwind CSS, jQuery

Backend Development: Django, Node.js, Flask, REST APIs, FastAPI, SocketIO

Databases: MySQL, PostgreSQL, MongoDB

Cloud Platforms: AWS (EC2, S3), Azure (Azure SQL Database, Azure Functions), Google Cloud Platform (GCP)

Containerization and Virtualization: Docker, Kubernetes Development Tools & IDEs: Visual Studio Code, IntelliJ, Eclipse

Testing Tools: Jest, Pytest, Postman Version Control: Git, GitHub

Soft Skills: Problem-Solving, Communication Skills, Team Collaboration, Adaptability, Attention to detail

Education

Master of Science in Data Science | Stevens Institute of Technology, New Jersey

May 2024

Bachelor of Engineering in Electronics and Telecommunication | Mumbai University, India

October 2020

Work Experience

Software Developer | PNC, California

January 2024 - Current

- Engineered RESTful APIs using Django with Redis caching to efficiently handle high-volume financial transactions, while developing React and Redux frontends for real-time monitoring dashboards.
- Orchestrated microservices architecture migration using Docker and Kubernetes, implementing FastAPI services with MongoDB that reduced system response time by 40% and enhanced scalability.
- Architected and deployed scalable applications on AWS using ECS and Lambda, implementing automated deployment pipelines and integrating S3 for secure file storage, reducing infrastructure costs and improved application reliability.
- Established a comprehensive testing framework using Jest, implementing automated CI/CD pipelines with GitHub Actions to enhance test coverage and reduce deployment issues.

Software Developer | Jio Platforms Ltd, India

October 2020 - July 2022

- Engineered the backend of JioWorks and scaled to handle 200K concurrent users, designed microservices architecture leveraging Node.js and MySQL, while actively participating in agile team activities including story sizing, backlog grooming, and release planning.
- Optimized system performance by integrating Redis cache and SocketIO in APIs achieving faster response time, and improving database efficiency through SQL query optimization and index tuning resulting in 20% reduction in execution time.
- Implemented Global Search functionality using Elasticsearch cluster with optimized index-parameter tuning, achieving sub-second query response times while maintaining high throughput for concurrent users.

Software Developer | Vivma Software Inc, India

November 2019 - October 2020

- Developed RESTful APIs using Python and Django for an Employee Management System, implementing JWT authentication and role-based access control, resulting in 30% improved data access efficiency and comprehensive test coverage using Pytest.
- Collaborated in an Agile environment using Git for version control, participated in daily standups and code reviews while maintaining detailed technical documentation, ensuring code quality through consistent implementation of Python best practices.
- Designed and optimized PostgreSQL database schemas and implemented efficient data models using Django, incorporating Redis caching and using Pandas for data processing, reducing query response time by 40% and improving application performance under high user load.
- Developed responsive frontend interfaces using React.js with TypeScript, integrating with RESTful APIs and implementing real-time notifications using SocketIO, resulting in streamlined HR workflows with automated data validation.

Projects

Al-powered Healthcare RAG Chatbot, Winner: GMG-MAAI Hackathon, Stanford University:

Led a team to develop a healthcare chatbot using Retrieval-Augmented Generation (RAG) and advanced embeddings, the solution was deployed in Oracle Cloud, ensuring robust performance and scalability.

Notes App: Full-Stack Development with React and Django (React.js, Django, PostgreSQL, AWS): 🔀

Developed a full-stack Notes App with a React.js frontend and Django backend, using PostgreSQL for optimized data storage. Implemented secure RESTful APIs and Jest while providing a responsive user interface with React hooks.

Ensemble Machine Learning model for Intrusion Detection (Python, NSL-KDD, Sklearn, Numpy): [7

Developed an ensemble ML model for intrusion detection, leveraging CIC Flow Meter for real-time packet capture, batch training with scikitlearn, and cloud-based infrastructure for large-scale inference and network anomaly monitoring.

Predicting the Hotel booking Cancellation (Python, Juypter, Numpy, Pandas):

Developed a predictive model to forecast hotel booking cancellations using Python. Explored various algorithms, and identified Random Forest and Gradient Boosting as the most accurate. Conducted in-depth feature analysis to uncover customer cancellation factors.