

SHIV SANTOSH SARWADE

Software Development Engineer

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Summary

Software Development Engineer with hands-on experience building scalable distributed systems, optimizing API latency, and designing robust full-stack workflows. Proficient in Data Structures & Algorithms (DSA), object-oriented design, and system architecture. Experienced in designing database schemas, ensuring system reliability, and working in agile environments to solve complex engineering problems. Strong expertise in Node.js, Python, MongoDB, and PostgreSQL, with a solid foundation in modern frontend technologies like React.js.

Skills

Languages & Core CS: JavaScript (ES6+), Python, Java, SQL, Data Structures & Algorithms, Object-Oriented Design, System Design

Backend & Distributed Systems: Node.js, Express.js, RESTful APIs, Microservices, JWT, RBAC

Frontend Technologies: React.js, Next.js, Redux Toolkit, Tailwind CSS, HTML5, CSS3

Databases & Cloud: PostgreSQL, MongoDB, AWS (EC2, S3), Nginx, Redis

Tools & Methodologies: Git, Linux, Docker, Postman, CI/CD, Agile/Scrum, SDLC

Experience

Software Developer

May 2025 – Present

Sitramix, Pune

Tools Used: Node.js, Express.js, React.js, Next.js, MongoDB, PostgreSQL, AWS, Docker

- Architected scalable full-stack features using React.js and Next.js, implementing state memoization to reduce component re-renders by 35%.
- Designed and optimized 20+ RESTful APIs, reducing response latency by 40% through effective caching, payload optimization, and database indexing.
- Implemented robust JWT authentication, RBAC, and fault-tolerant asynchronous services for secure multi-tenant workflows.
- Managed deployments on AWS EC2 with Nginx reverse proxies, proactively resolving production bottlenecks to ensure 99.9% uptime.

Projects

Griffion – Identity & Authentication Service | Node.js, React.js, MongoDB, Redis

- Developed a modular authentication microservice featuring JWT rotation, refresh token mechanisms, and secure session management.
- Optimized MongoDB database schemas and implemented caching strategies to minimize query overhead and improve authorization latency by 30%.
- Built robust backend REST APIs and secure frontend workflows with protected routing, accelerating time-to-market for new internal tools.

Techvruk – Community Platform for Engineers | Next.js, Node.js, Python, PostgreSQL, LangChain

- Developed full-stack platform features including JWT and Google OAuth 2.0 authentication, robust user profile management, and a tutorials module.
- Built an internally tested AI Resume Evaluator utilizing Python, LangChain, and RAG to provide ATS compatibility scoring and keyword optimization.
- Contributed to UI design and branding by designing the platform logo, implementing responsive components, and optimizing API communication across microservices.

JobJet – Full-Stack Job Portal | Python, React.js, Node.js, PostgreSQL

- Engineered a scalable job-matching engine using Python with optimized string search and sorting algorithms for handling large datasets.
- Designed a responsive, component-driven frontend architecture using React.js and Tailwind CSS for seamless recruiter-candidate interactions.
- Created backend REST APIs using Node.js for application tracking, secure file uploads (resumes), and user profile management.

TICKETIFY – Event Management System | React Native, Node.js, MongoDB

- Engineered a highly available backend for a cross-platform event application, supporting high-concurrency ticket booking and real-time attendee synchronization.
- Implemented secure QR-based ticket validation and developed REST APIs to ensure reliable, low-latency event check-in operations under heavy load.

Awards & Certifications

- Secured 1st Rank in college during Bachelor's degree graduation (BBA-CA / BCA) with an outstanding CGPA of 9.60/10.

Education

Master of Computer Applications (MCA)

Expected: June 2027

Savitribai Phule Pune University (SPPU)

CGPA: 8.96

Bachelor of Business Administration in Computer Applications (BBA-CA / BCA)

Graduated: 2025

Savitribai Phule Pune University (SPPU)

CGPA: 9.60 / 10 (1st Rank)

12th Class Higher Secondary Certification (H.S.C.)

2021 – 2022

Percentage: 87.50% (1st Rank)

