SHASHANK PREETHAM PENDYALA

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Software Engineer – Full-Stack

SKILLS

LANGUAGES | • Java(primary) • JavaScript • Python

BACK-END | • RESTful APIs • Java-based services • Node.js • WebSockets • Async Tasks

• Authentication & Authorization

FRONT-END | • JavaScript (ES6+) • HTML5 • CSS3 • React + Vite

DATABASES | • Firebase Real-time DB • MySQL • Firestore

CLOUD | • AWS (S3, CloudFront, SES) • CI/CD & version control (Git, GitHub)

SYSTEM DESIGN | • Scalability • Caching CDN • Optimization

EXPERIENCE

Software Engineer Intern – 9X IT Solutions | Remote

Oct 2025 – Dec 2025

• Developed and optimized **Java-based RESTful microservices** handling 1,000+ daily requests; reduced average response time by ~25% by simplifying payloads, adding pagination, and optimizing controller logic.

• Improved **MySQL** query performance by ~15–20% through indexing, query refactors, and removing redundant joins, improving overall API responsiveness.

• Built reusable authentication and authorization modules (token/session checks, role-based access) shared across services, improving consistency and reducing duplication.

PROJECTS

Quick Entry — Real-Time Visitor Access Platform (Freelance)

• Built OTP verification flow using Firebase Auth + Realtime DB with optimized read/write patterns.

• Designed service boundaries, data models, and APIs for scalable, modular deployment

• Integrated ML Kit OCR with preprocessing for improved license-plate extraction accuracy.

• Developed WebSocket-based admin dashboard enabling sub-second real-time visitor updates.

Movie Mela – Scalable Movie Streaming Web App

• Implemented MP4 to HLS multi-bitrate pipeline using FFmpeg for adaptive streaming.

• Configured NGINX + CloudFront to reduce repeated segment reads and improve CDN caching.

• Added signed URLs + caching rules, reducing cold-start playback latency by ~45%.

• Wrote unit and integration tests for core modules to ensure reliability under load.

Skill-Link App – Real-Time Service & Skill Discovery Platform (Freelance)

• Implemented geo-based provider search using Firestore indexing and cached lookups to improve responsiveness under test load.

• Built WebSocket-based chat with delivery and read receipts to support real-time conversations between users.

• Developed multi-role login, distance ranking, and dynamic real-time filters.

EDUCATION

SAVEETHA SCHOOL OF ENGINEERING
B.E., Computer Science and Engineering
July 2026 | Chennai, India
CGPA: 8.7/10

KRISHNAVENI JUNIOR COLLEGE
Intermediate (MPC)

May 2022 | Kothagudem, India
CGPA: 9.4/10

COURSEWORK

• Data Structures and Algorithms

• Applied Statistics, Linear Algebra

• Machine Learning & AI Fundamentals

CERTIFICATIONS

• Oracle Certified Java SE 17 Developer (1Z0-829)

• AWS Certified Cloud Practitioner

LEETCODE & PROGRAMMING

• LeetCode: Shashank3549 — 200+ problems solved

• Consistently solving timed and contest-style problems to improve analysis,

TECHNICAL STRENGTHS

• Clean Code   • Real-Time Systems

• API Performance Tuning • Debugging