

# SHASHANK PREETHAM PENDYALA

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SOFTWARE ENGINEER

## SKILLS

**LANGUAGES** | • Java • JavaScript • PHP

**BACK-END** | • REST APIs • Node.js • WebSockets • Authentication • Async Tasks

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

**CLOUD** | • AWS (S3, CloudFront, SES) • Firebase

**SYSTEM DESIGN** | • Scalability • Caching CDN • Optimization

## EXPERIENCE

### Software Engineer Intern – 9X IT Solutions | Remote

Oct 2025 – Present

- Developed and optimized Java-based REST APIs handling 1,000+ daily requests; reduced average response time by ~25% by simplifying payloads, adding pagination, and optimizing controller logic.
- Improved SQL query performance by ~15–20% by using indexing and removing redundant joins.
- Built reusable authentication modules (token/session checks) shared across multiple backend services, reducing duplication and improving consistency.

## PROJECTS

### Quick Entry – Real-Time Visitor Access Platform (Freelance)

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

### 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](#) — 400+ problems solved
- Consistently solving timed and contest-style problems to improve analysis,

## TECHNICAL STRENGTHS

- Clean Code
- Real-Time Systems
- API Performance Tuning
- Debugging