

Shreyas Waghmare

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SUMMARY

Senior Software Engineer with 6+ years of experience building large-scale distributed systems, ML/AI infrastructure, and full-stack platforms. Proven track record leading end-to-end engineering - from designing reusable frameworks for reinforcement learning to shipping production-grade data pipelines processing terabytes. Passionate about reliability, scalability, and solving complex engineering challenges at Google scale.

TECH STACK: Python, Ruby on Rails (RoR), Distributed Systems, AWS (EC2/S3/CloudFront/ElastiCache), Redis, Sidekiq, React, Docker, LLM/ML Infrastructure.

EXPERIENCE

[Scaler AI Labs](#) (**Scaler Academy**), Bangalore Senior Software Engineer Aug 2025 - Present

- Led engineering for the enterprise data vertical at Scaler AI Labs, processing terabytes of data through high-throughput distributed pipelines for PII/BII detection and removal at scale.
- Designed a reusable framework for initializing reinforcement-learning environments, reducing environment setup time by ~70% and enabling consistent, repeatable task setups across 10+ AI trainers.
- Built and operated large-scale internal platforms for running and evaluating AI training workflows, supporting hundreds of concurrent experiments.
- Built a Ray-based distributed compute platform for baselining RL tasks across multiple environments, cutting experiment turnaround time by 3x
- Implemented LLM-based evaluation pipelines with deterministic graders, achieving reliable scoring at scale with <2% variance across runs
- Created automated validation checks replacing manual review, improving data approval rates by 40% and reducing human intervention for quality assurance
- Containerized all environments using Docker for external AI partners, forming the foundation of a standardized, reproducible environment repository adopted across 5+ partner integrations
- Implemented authentication, structured logging, and alerting (via PagerDuty/Datadog) across the platform, improving production reliability and reducing mean time to detect (MTTD) incidents
- Architected and shipped the internal task management platform for creation, review, and baselining from scratch within a 4-person engineering team, delivering on schedule.

Scaler Academy, Bangalore

Senior Software Engineer

Jan 2024 - Jul 2025

- Led development of Scaler Internal Meetings Platform, adding watermarking and interactive elements (polls, quizzes, surveys) serving 50,000+ active learners.
- Built an admin panel for assisted live model workflows, reducing instructor onboarding time by 30% and streamlining processes for 200+ instructors.
- Led the CRM project from inception, designing and implementing core features such as secure authentication, reusable permission templates, and lead management capabilities (filtering, stage tracking, email management, and owner assignment) to streamline team workflows.
- Built an AI-powered Sales Training platform integrating ElevenLabs, Gemini, and Deepgram APIs to onboard new sales hires, improving sales productivity by 1.5x and reducing ramp-up time by 2 weeks.

- Handled multiple critical pager duties related to high DB CPU, high sidekiq queue size, high DB IOPS, etc. Upgraded AWS resources (RDS, Lambda) to newer versions to avoid maintenance fees.

Scaler Academy, Bangalore SDE II and Content Manager Nov 2021 - Dec 2023

- Led [Scaler Topics](#) computer science curriculum. Maintained an average article rating of 4.6 across 1000+ articles written and reviewed by an internal team.
- Managed **4 topics quarterly**(Linux, Data Structures, Operating Systems, DBMS, React, etc), created curriculum, set up processes for writer and reviewer hiring, and reviewed 25% of all published articles myself to ensure quality adherence.
- Enhanced Cypress and RSpec coverage to improve platform resilience and added tracking for major flows.
- Led the USA launch of Scaler Academy - Made necessary changes to Scaler's backend and frontend for the US region.
- Led the Scaler Neovarsity initiative and led discussions with Woolf University. Worked hands-on in the low-level design and implementation of Scaler Neovarsity.

Borderfree Technology, Hyderabad Product Engineer Aug 2020 - Oct 2021

- Product Lead for Mobile App - built interactive live-video commerce solutions that increased user engagement by 2x.
- Led the React Native team - developed a complete React Native app (iOS+Android) from scratch with custom iOS/Android components • React and Golang - Integrated Google and Facebook APIs to send live video streams to social platforms to increase user engagement. Built features to allow communication between the broadcaster and participants.
- Deployed Jitsi Meet on EC2 in an autoscaling group, supporting up to 500 concurrent users per session with 99.9% uptime.
- Polished the web front end to ensure a smooth experience across devices and browsers.
- AWS services used - Lambda, API Gateway, CloudFront, CloudWatch, EC2, CloudFormation, S3, MediaLive, Route 53.

Scaler Academy, Remote Teaching Assistant Nov 2020 - Present

- Guiding and helping students provide clarity over their doubts related to algorithms and problem-solving. Resolved 100+ help requests.

ZS Associates, Pune **Business Technology Analyst** Jun 2019 - Jul 2020

- Delivered 4 end-to-end software projects, collaborating with cross-functional teams of 5-15 members across data engineering and operations.
- Designed and deployed a field-facing automation tool for a multi-country pharmaceutical client, adopted by 5,000+ field users across 3 countries.
- Developed automation scripts to increase operations efficiency. Successful go-live for 5000+ field users.

INDEPENDENT PROJECTS

[Chordswift](#)

Dec 2018

- A cross-platform app (Android, iOS, Windows, Mac) that listens to play the piano in real-time and provides feedback.
- Applied a CNN model on Constant-Q Transform (CQT) of 44.1 kHz audio signals, achieving <50ms real-time inference latency on-device using TensorFlow Lite.

[WorkQ](#)

- Personal productivity app built with React and Node.js; demonstrates full-stack development and clean architecture principles.

EDUCATION:

Bachelor of Engineering in Information Technology
Pune Institute of Computer Technology, Pune India

2015 - 2019

TECHNICAL CERTIFICATIONS:

- Scaler - Data structures and Algorithms, Low-level Design, High Level Design, 2020
- Coursera - [Natural Language Processing in TensorFlow, 2020](#)
- Coursera - [Convolutional Neural Networks in TensorFlow](#), 2019
- Coursera - [Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning](#), 2019
- Coursera - [Deep Learning Specialization](#), 2018
- EdX - [Introduction to Linux](#) - by Linux Foundation, 2016