

Suraj Vishwakarma

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SKILLS

- **Languages:** C++, Java, Python, JavaScript, TypeScript, Go
- **Technologies:** Node.js, Express.js, React.js, Next.js, REST APIs, WebSockets, Microservices, System Design
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis
- **Cloud & DevOps:** AWS (EC2, S3, IAM, ECR, ECS, EKS), Docker, Kubernetes, Terraform, Jenkins, CI/CD Pipelines
- **Soft Skills:** Leadership, Reliability, Persistence, Team Collaboration

EXPERIENCE

Gradified | Backend Engineer Intern | gradified.in Apr 2026 – Jun 2026

- Developed backend components for an AI-driven exam evaluation platform focused on automated grading of mathematical responses at scale.
- Architected a math evaluation module to verify AI-generated answers, handling numerical precision, equivalent expressions, and step-wise correctness across varied answer formats.
- Integrated OpenAI models via Vercel AI SDK with deterministic validation logic, ensuring reliable and consistent scoring across diverse student response formats in production.
- Optimized concurrent grading workflows using BullMQ-based job queues and asynchronous processing, improving system throughput and supporting high-volume evaluation tasks efficiently.

Tech Stack: Bun.js, Vercel AI SDK, OpenAI API, BullMQ, PostgreSQL, AWS S3

PROJECTS

RapidServe — Full-Stack Deployment Platform | [GitHub](#) | [Live](#) Dec 2025 – Mar 2026

- Architected an automated CI/CD pipeline that clones repositories, builds applications inside Docker containers, and uploads artifacts to AWS S3, eliminating manual deployment steps.
- Implemented isolated container execution to enforce reproducible builds and environment consistency, improving deployment reliability across distributed infrastructure.
- Enabled real-time build log streaming via Redis Pub/Sub, achieving sub-100ms latency feedback and supporting scalable monitoring across 50+ concurrent deployments.
- Designed a fault-tolerant job scheduling system using a Redis-backed queue with distributed processing, ensuring high availability and stable throughput under concurrent workloads.

Tech Stack: Node.js, Express, React, PostgreSQL, Redis, Docker, GitHub Actions, AWS, Terraform

SketchKaro — Real-Time Collaborative Whiteboard | [GitHub](#) | [Live](#) Nov 2025 – Dec 2025

- Built a WebSockets-based real-time collaboration engine maintaining <100ms latency for synchronized multi-user drawing interactions at scale.
- Enforced access control using JWT-based authentication, securing persistent WebSocket connections and restricting entry to authorized live sessions.
- Applied an event-driven architecture to propagate drawing state across distributed clients, enabling low-latency synchronization for multiple concurrent users.
- Deployed containerized microservices on AWS using Docker and Terraform, achieving infrastructure-as-code consistency and reducing environment setup time by ~60%.

Tech Stack: Next.js, Bun.js, Express, WebSocket, JWT, PostgreSQL, Prisma, Docker, Terraform

CERTIFICATES

- AI Foundations Associate — [Oracle](#) Apr 2026
- Full-Stack Web Development — [100xDevs](#) Aug 2025
- Complete Generative AI with LangChain — [Udemy](#) Oct 2024

ACHIEVEMENTS

- Selected as **SIH 2025 Finalist**, competing among 2000+ participants nationwide Jan 2025
- Ranked **Top-20 out of 180+ teams** at **WarpSpeed Hackathon** for technical innovation Dec 2025
- Solved **380+ coding problems** across LeetCode and competitive programming platforms May 2026

EDUCATION

Lovely Professional University Phagwara, Punjab
B.Tech in Computer Science and Engineering; **CGPA: 7.51** Aug 2023 – Present

Narayana PU College Vidyaranyapura, Bangalore
Intermediate; **Percentage: 79%** Apr 2021 – Mar 2023

Narayana E-Techno School Yelahanka, Bangalore
Matriculation; **Percentage: 88%** Apr 2020 – Mar 2021