Suraj Vishwakarma

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SKILLS

- **Languages**: C++, Java, Python, JavaScript, TypeScript, Go
- **Frameworks**: Next.js, React.js, Express.js, Node.js, Tailwind CSS
- **Database & Tools**: PostgreSQL, MySQL, MongoDB, Redis, Docker, Kubernetes, AWS, Terraform, CI/CD
- **Soft Skills**: Problem Solving, Team Collaboration, Adaptability, Leadership, Ownership

PROJECTS

- **RapidServe — Full-Stack Deployment Platform**: Github | Live   Sep' 25 – Oct' 25
  - Engineered a Vercel-like CI/CD deployment system using **GitHub Actions + Docker**, enabling automatic build and release of GitHub repositories with zero manual intervention.
  - Orchestrated a Redis-backed job queue to coordinate **50+ parallel deployments**, preventing race conditions and maintaining high build success rates under load.
  - Established real-time build log streaming via **Redis Pub/Sub**, delivering sub-second feedback with **99.9% log delivery reliability** during deployments.
  - Constructed a reverse-proxy based subdomain routing layer on AWS EC2, achieving **99.9% uptime** while isolating deployments across tenants.
  Tech: Node.js, Express, React, PostgreSQL, Redis, Docker, GitHub Actions, AWS, Terraform

- **SketchKaro — Real-time whiteboard**: Github | Live   Nov' 25 – Dec' 25
  - Architected a dual-protocol backend (REST + WebSocket) to support real-time collaboration with **sub-100ms interaction latency** across multiple users.
  - Secured live collaboration sessions using **JWT-authenticated WebSockets**, ensuring authorized access and preventing session hijacking.
  - Programmed synchronized drawing primitives (shapes, cursors, strokes) to maintain consistent state across concurrent clients in real time.
  - Deployed containerized services on AWS using Docker and Terraform, **reducing environment setup and release time by ~60.**
  Tech: Next.js, Bun.js, Express, WebSocket, JWT, PostgreSQL, Prisma, Docker, Terraform

- **PfpStudio – AI Profile Picture Creator**: Github | Live   Jan' 26
  - Developed an AI-powered image processing platform supporting customizable backgrounds and **4K profile exports** for professional and social platforms.
  - Automated background-removal pipelines, reducing manual editing effort by **~90%** and achieving **<3s processing time** per image.
  - Integrated secure payment infrastructure using Razorpay, enabling monetization through token-based credit purchases.
  - Implemented OAuth-based authentication with MongoDB persistence to reliably manage **500+ users** and track credit usage.
  Tech: Next.js, TypeScript, MongoDB, OAuth, Payments API

CERTIFICATES

- Full-Stack Web Development - 100xDevs   Aug' 25
- Complete Generative AI with LangChain - Udemy   Oct' 24
- Hardware and Operating System Essentials - IBM   Nov' 24

ACHIEVEMENTS

- Selected as SIH 2025 Finalist, competing among 2000+ participants nationwide - certificate   Jan' 25
- Ranked Top-20 out of 180+ teams at WarpSpeed Hackathon for technical innovation - certificate   Dec' 25
- Solved 380+ coding problems across platforms - view   Jan' 26

EDUCATION

Lovely Professional University   Phagwara, Punjab
Bachelor of Technology - Computer Science and Engineering; **CGPA: 7.3**   *Aug' 23 - Present*
Narayana PU College   Vidyaranyapura, Bangalore
Intermediate; **Percentage: 79**   *Apr' 21 – Mar' 23*
Narayana E-Techno School   Yelahanka, Bangalore
Matriculation; **Percentage: 88**   *Apr' 20 – Mar' 21*