

SRISHTI AGARWAL

Senior Full Stack Engineer - React.js | Node.js | AWS | AI

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SUMMARY

Senior Full Stack Engineer with 5+ years of experience designing and delivering scalable enterprise applications and cloud-native solutions. Experienced in system design, microservices architecture, AI-powered applications, and secure API development, with a proven track record of delivering high-performance, business-driven software.

EXPERIENCE

Senior Software Engineer

Freelance

📅 02/2025 - Present 📍 Walldorf, Germany

Project: StarVacays

- Designed and built the full-stack architecture for **StarVacays** using React and MongoDB, implementing a real-time availability tracking system that **eliminated booking conflicts** and **reduced manual reservation management time by 50%**.
- Optimized MongoDB aggregation pipelines and REST API endpoints, leading to a **25% improvement in database query efficiency** during peak traffic windows.

Project: Cycleculture

- Architected and deployed a responsive React and Node.js web application for **Cycleculture**, implementing optimized REST APIs and dynamic search functionality that **improved user engagement metrics by 25%**.
- Leveraged AWS cloud services for media assets and implemented lazy-loading, **slashing initial page load time by 1.5 seconds** and increasing SEO visibility.

Tech: JavaScript | React | Node.js | REST APIs | MongoDB | AWS

Senior Software Engineer

Metro Global Solution Center

📅 11/2023 - 10/2024 📍 Pune, India

🔗 <https://www.metro-gsc.in/>

Project: Metro Hiring Feedback System – Internal HR analytics platform used by 500+ employees across multiple departments and locations

- Independently developed a full-stack feedback platform, **increasing onboarding feedback completion rate by 40%** and reducing manual HR follow-ups.
- Implemented automated email notifications with personalized links at multiple milestones, **improving data consistency by 90%**.
- Built a role-based analytics dashboard with charts and sortable tables, enabling HR teams to identify onboarding improvement areas and **reduce reporting time by 60%**.

Project: Metro Backbone Tool – Internal system used by 1,000+ internal users across multiple countries

- Designed and developed the core enterprise platform, automating opportunity, resource, and financial approval workflows and **reducing manual operational effort by 70%**.
- Implemented multi-level approval flows and Excel-based financial integrations, **shortening approval cycles by 30%** and **improving data accuracy by 90%**.
- Introduced LLM-powered platform to auto-generate approval summaries, flag financial anomalies, and provide natural-language insights to approvers, **reducing decision effort by 40%**.

EDUCATION

Bachelor of Engineering (B.E.) in Computer Science

**Dayananda Sagar Institution,
Visvesvaraya Technological University (VTU)**

📅 07/2013 - 07/2017 📍 Bangalore, India

WEB PORTFOLIO

🌐 <https://srishtiagarwal.dev>

SKILLS

Programming Languages

JavaScript (ES6+), TypeScript, Python, HTML5, CSS3

Frontend Development

React.js, Next.js, Redux, React Server Components, Tailwind CSS, Bootstrap, Material UI (MUI)

Backend Development

Node.js, Express.js, Django

API Development & Integration

REST APIs, WebSockets, Socket.IO, Axios, Swagger (OpenAPI)

Authentication & Security

JWT, OAuth 2.0, Role-Based Access Control (RBAC), Authentication & Authorization

Databases & ORM/ODM

PostgreSQL, MongoDB, Mongoose, MySQL

Cloud & Infrastructure

AWS (EC2), Google Cloud Platform (GCP), Docker, Kubernetes, Nginx, Linux, Vercel, PM2, Load Balancer

Architecture & System Design

System Design, Microservices, Event-Driven Architecture, MVC Architecture, Design Patterns, Scalable Distributed Systems, Caching Strategies

EXPERIENCE

- Applied **RBAC**, microservices architecture, and CI/CD pipelines to ensure scalability, security, and faster releases.
- Tech:** React.js | Next.js | Node.js | Express.js | JavaScript (ES6+) | REST APIs | PostgreSQL | Docker | Kubernetes | Microservices | OpenAI APIs | AWS | Git | GitHub | Kibana | Postman | Jira

Acting Operations Coordinator (Family Business)

C&F Office – JK Tyres

- 📅 12/2021 - 10/2023 📍 Alwar District, Rajasthan, India
🔗 <https://www.jktyre.com/>
- Temporarily stepped-in to manage day-to-day operations of the C&F office during a leadership gap and critical period.
 - Coordinated with staff to ensure smooth execution of logistics, inventory, and dispatch processes.
 - Oversaw order fulfillment and ensured timely delivery to dealers and customers.
 - Monitored workflow and resolved operational issues to maintain efficiency and supported basic administrative and reporting tasks.

Software Engineer

Flexera Software India LLP

- 📅 03/2019 - 11/2021 📍 Bangalore, India
🔗 <https://www.flexera.com/>
- Project: Software Vulnerability Manager** – US-based security platform for Microsoft, Oracle and Adobe.
- Developed core modules, **increasing security dashboard adoption by 25%** among internal and client-facing users.
 - Built configurable dashboards with dynamic portlets and profiles, **reducing security analysis time by 35%**.
 - Implemented agent-based workflows with multiple scan modes, **improving scan coverage and prioritization accuracy by 30%**.
 - Contributed to automated patch deployment pipelines and implemented secure admin features, including RBAC, Active Directory integration and password policies.

Tech: React.js | Node.js | Express.js | JavaScript (ES6+) | REST APIs | MySQL | Jenkins | Hybrid Cloud (AWS & On-Premise) | Kibana | Postman

Software Engineer

Databyte Equipment Pvt. Ltd

- 📅 09/2018 - 12/2018 📍 Bangalore, India
- Project: Queue Management System** – India-based electronic queue management solution for banks, hospitals and public service offices.
- Developed core backend and frontend features for a queue management system, enabling real-time multilingual LED queue displays and **reducing manual queue handling by 40%**.
 - Improved reporting accuracy by 15%** through optimised database queries and graphical reporting.

Tech: HTML | CSS | Bootstrap | JavaScript | Python | Django | REST APIs | MySQL | GitHub | Postman

Software Engineer

Yoneak Services Pvt. Ltd

- 📅 09/2017 - 09/2018 📍 Bangalore, India
- Project:** Web development projects for small to mid-sized businesses
- Designed and developed 15+ responsive websites for SMEs, improving client digital presence, website performance, and user engagement.

SKILLS

DevOps & CI/CD

Git, GitHub, GitHub Actions, Jenkins, CI/CD Pipelines

Testing & Code Quality

Unit Testing, Jest, React Testing Library

AI & Modern Engineering Practices

Generative AI, OpenAI APIs, Large Language Models (LLMs), Prompt Engineering, GitHub Copilot, Claude

Tools & Collaboration

Jira, Postman, Kibana, Agile, Scrum

LANGUAGES

English

Proficient



Hindi

Mother tongue



German - A2

Intermediate



CERTIFICATIONS

Business Laurels (Achievement Award)

Metro Global Solution Center - 2024

Full Stack Web Development Program

Coding Ninja - 2023 - 2024

Professional Certificate Program In Blockchain

IIT Kanpur - 2022 - 2023

PROJECTS

CivicPulse AI

🔗 <https://civicpulse-ai-219290421637.us-central1.run.app/>

Built an AI-powered civic issue reporting platform using React, Node.js, Google Cloud, and LLMs. It lets users report via images and auto-categorizes severity, type, urgency, and suggests actions.

VISA STATUS



Valid German residence permit | Full work authorization | No employer sponsorship required