

Gaurav Pramod Singh

[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

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SUMMARY

Full-stack Software Engineer (MEng, Oregon State) with 2 years of experience specializing in scalable backend systems and high-availability APIs. Scaled user acquisition by 20% through fintech integrations and sustaining 99.9% uptime on **AWS** cloud infrastructure.

WORK EXPERIENCE

Software Developer Intern

Jun. 2024 - Sep. 2024

TechLuminix, Remote, India

- Optimized backend service flows for a production platform, achieving a **30% reduction in API response time** through strategic MongoDB schema refactoring and query optimization.
- Built and shipped REST APIs in **Next.js + MongoDB**, recorded and validated endpoints with **Swagger/Postman** to speed up QA and integration.
- Refactored **JavaScript** and **Python** modules to eliminate recurring logic issues, reducing QA rework and improving release reliability.
- Documented module dependencies and system workflows for a **6+** person team, accelerating onboarding and cross-team collaboration.
- Streamlined **CI/CD pipelines** utilizing **Git/GitHub** and LLM tools to accelerate debugging, documentation drafts, and **test-case generation**.

Software Engineer

Apr. 2022 - Aug. 2023

Mepro Tech, Mumbai, India

- Led end-to-end development of a tournament/competition module (**Scrum Master + IC**).
- Programmed core logic for tournament creation, division setup, tee-sheet generation, and **real-time scoring**, ran regression testing and performance analysis to identify bottlenecks.
- Integrated **Stripe APIs** for payments, refunds, and connected-account payouts, executing secure webhook handling and driving a **20%** increase in registrations.
- Built dynamic multi-step dashboards using **React, Redux, and React Hook Form**, enforcing robust validation and responsive UX for admin and user flows.
- Developed and optimized backend APIs using **Node.js, Express, and MongoDB**, including secure session-based logic for sensitive actions.
- Architected a resilient deployment strategy on **AWS EC2** leveraging **Load Balancers and CloudWatch monitoring**, ensuring **99.9% uptime** for a high-traffic tournament module.

PROJECTS

FormFlow | [FE Repo](#) | [BE Repo](#)

- Engineered a full-stack form builder and response platform leveraging **React + Vite + Tailwind** (frontend) and **NestJS + TypeScript + Prisma + PostgreSQL + Redis** (backend).
- Architected core workflows: **auth (JWT)**, form **CRUD**, field **CRUD + reorder**, **publish + slug**-based public form fetch, and public submissions storing structured responses and field-level answers.
- Orchestrated backend deployment using **Kubernetes**, deploying horizontal pod auto-scaling (HPA) and Redis-based rate limiting to ensure system resilience under high traffic loads.
- Documented **APIs with Swagger/OpenAPI** and **validated endpoints with Postman** (plus PowerShell API tests during development).

Stock Market Tracker | [GitHub Repository](#) | [Live Demo](#)

- Launched a real-time stock dashboard using **React, Redux Toolkit, Recharts**, and the **Alpha Vantage API**.
- Engineered robust API request flows and fallback logic to ensure seamless data retrieval under rate limits, elevating overall application reliability.
- Integrated portfolio tracking, watchlist, **global state management**, and a dynamic light/dark theme.
- Structured codebase with scalable **Redux slices** and reusable UI components, allowing swift expansion for future features and reducing maintenance effort.
- Created a responsive, clean UI and hosted securely on Vercel via environment variables.

Anime & Manga Search Explorer | [GitHub Repository](#) | [Live Demo](#)

- Constructed a full project with **React, Vite, Tailwind CSS**, REST APIs, and LocalStorage.
- Created a responsive anime/manga search app powered by the **Jikan REST API**, featuring filters for category, type, and minimum score.
- Designed dynamic UI components including interactive cards and a scrollable detail modal displaying ratings, episodes, genres, and synopsis.
- Established a persistent Watchlist with **LocalStorage**, allowing users to retain favorites across sessions and enhancing user engagement.
- Introduced a "Top-Rated Anime" homepage feed to boosting discovery and overhaul user experience.
- Automated project on **Vercel** with enhanced build performance and **CI/CD** automation through GitHub.

TECHNICAL SKILLS

- Languages:** JavaScript, Python, TypeScript
- Frontend:** React.js, Next.js, Redux Toolkit, Tailwind CSS, Vite, React Hook Form, Recharts
- Backend & APIs:** Node.js, Express.js, NestJS, REST APIs, Prisma, Stripe API
- Database:** MySQL, PostgreSQL, MongoDB, Redis
- Cloud & DevOps:** Docker, Kubernetes (Minikube), AWS (EC2), CI/CD, Git, GitHub
- Testing & API Tools:** Unit Testing, Integration Testing, Postman, Swagger
- AI & Automation:** Prompt Engineering, LLM APIs

EDUCATION

Oregon State University, Corvallis, OR(US)

Sept. 2023 - Dec. 2025

Master of Engineering, Computer Science

Thakur College of Science and Commerce, Mumbai, MH(India)

Jun. 2019 - Mar. 2022

Bachelor of Science, Computer Science