Gaurav Pramod Singh

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EDUCATION

Bachelor of Science, Computer Science   Jun. 2019 - May. 2022
Thakur College of Science and Commerce, Mumbai, MH(India)
Relevant Coursework: Software Engineering, RDBMS, Web Services, Cloud Computing, Data Science, Data Structure

Master of Engineering, Computer Science   Sept. 2023 - Dec. 2025
Oregon State University, Corvallis, OR(US)
Relevant Coursework: Algorithms, Computer Architecture, Human Computer Interaction, Parallel programming

WORK EXPERIENCE

Software Developer Intern   Jun. 2024 - Sep. 2024
TechLuminix, Remote, India
- Refactored **JavaScript and Python application modules** to address recurring logic errors and improve maintainability, **reducing testing-phase defects by 20%** and increasing overall code quality.
- Analyzed and clarified **application architecture and module dependencies** for a team of **5+ developers**, enabling faster onboarding and **accelerating feature implementation by 10%.**
- Documented **system architecture and end-to-end feature workflows** in collaboration **with 6+ developers, cutting onboarding time for new interns by 30%.**
- Applied **software engineering best practices** (modular design, cleaner abstractions, readable documentation) to improve development efficiency and **reduce feature delivery time by 10–15%.**

Backend Software Engineer Intern   Dec. 2023 - Mar. 2024
Canoo, Remote, USA
- Developed **RESTful backend APIs** using **Python (Flask)** to support internal dashboards and deployment workflows.
- Collaborated on **automated testing** using **Pytest**, contributing to **>90% code coverage** and integrating tests into a **Jenkins CI/CD pipeline.**
- Implemented event-driven backend services using **AWS Lambda**, **DynamoDB**, and **AWS IoT** for scalable, fault-tolerant workflows.
- Contributed to observability and monitoring through **Datadog dashboards, monitors, and alerts** to improve system reliability.
- Worked in an **Agile/Scrum environment**, participating in sprint planning, daily standups, and task tracking via **Jira.**

Software Engineer   Jun. 2022 - Aug. 2023
Mepro Tech, Mumbai, India
- **Developed and shipped full-stack features** using **JavaScript, React, Node.js, Python, and MongoDB/SQL**, improving application stability and delivering more responsive, user-friendly interfaces.
- **Designed and optimized RESTful API endpoints and backend data pipelines**, improving system throughput and **reducing query latency by 20%** through better data access patterns and performance tuning.
- **Automated backend workflows**, including validation logic and deployment routines, **reducing manual operational effort and production issues by 25%.**
- **Refactored service-layer code and applied modular architecture patterns**, decreasing bug recurrence and **accelerating feature delivery by 15–18%.**
- **Contributed actively to Agile/Scrum ceremonies**, including sprint planning, daily stand-ups, and retrospectives, supporting predictable delivery and high-quality releases.
- **Collaborated with cross-functional teams** to clarify technical requirements and **document system architecture**, improving onboarding efficiency and team alignment.

PROJECTS

Stock Market Tracker
- Developed a real-time stock dashboard using React, **Redux Toolkit**, **Recharts**, and the **Alpha Vantage API** | [GitHub Repository](#) | [Live Demo](#)
- Engineered robust API request flows and fallback logic to maintain seamless data retrieval under rate limits, elevating overall application reliability.
- Implemented portfolio tracking, watchlist, **global state management**, and a dynamic light/dark theme.
- Structured the 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 deployed securely on Vercel using environment variables.

Anime & Manga Search Explorer
- Built a full project with React, **Vite**, **Tailwind CSS**, REST APIs, and LocalStorage | [GitHub Repository](#) | [Live Demo](#)
- 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 enhance discovery and overhaul user experience.
- Deployed project on **Vercel** with optimized build performance and **CI/CD** automation through GitHub.

TECHNICAL SKILLS

- **Languages**:   JavaScript, Python, TypeScript, C++, Java,
- **Database**:   MySQL, Postgres, SQL, MongoDB, MariaDB
- **Framework & Tools:** React.js, Node.js, Tailwind CSS, Vite, Flask, Next.js, Git, Jira
- **Cloud & DevOps**:   AWS (Lambda, DynamoDB, IoT), Docker, CI/CD pipelines
- **Certifications**:   Microsoft Power BI Training (2023), AWS Certified Cloud Practitioner - (In progress)