

SHIVAM JAIN

 +91-7415131511 |  shivamjain169@gmail.com |  LinkedIn |  GitHub

Professional Summary

Full Stack Developer with **3 years of end-to-end experience** designing, building, and scaling web applications using **React.js**, **Python (FastAPI/Flask)**, and **PostgreSQL**. Specialized in **microservices architecture**, asynchronous and multithreaded processing, and **WebSocket-based real-time systems** for high-throughput, low-latency workloads. Strong background in performance optimization, database tuning, and cloud-native deployments on **Linux and Azure**, with a focus on reliability, observability, and maintainable code quality. Experienced in integrating **AI-driven features (LLMs, OCR, GenAI)** into production workflows and leading frontend modernization using **micro-frontends, BFF layers, and design-system-driven UI development**.

Technical Skills

- **Backend:** Python (FastAPI/Flask), Celery, REST & WebSocket APIs, SQLAlchemy, MicroServices.
- **Frontend:** React.js, Vue.js, JavaScript (ES6+), WebSocket, Micro-Frontend, WebPack, Tailwind, MUI.
- **Database:** PostgreSQL, MySQL, Redis.
- **Workflow Orchestration & Configuration:** Apache Airflow (Orchestration), ETCD (Centralized Configuration).
- **DevOps & Deployment:** Linux Server Management, Red Hat VMs, Azure, CI/CD pipelines.
- **Developer Productivity & AI Tools:** Github Copilot, Cursor, AI-assisted refactoring, debugging and code generation.
- **Other Relevant Skills:** SEO Optimization, System Design, Observability/monitoring tools (Prometheus, Grafana).

Experience

Software Engineer | Genzeon Technology Solutions, Pune, MH |

May 2023 – Present

- **Engineered and delivered core HIP-One platform features** (Medical Review, CCDA Summarization, Chat with PDF, dashboards), streamlining healthcare workflows and improving clinical decision-making efficiency.
- **Designed and deployed real-time WebSocket pipelines** with FastAPI + React, enabling live updates and reducing perceived latency, improving user engagement and responsiveness.
- **Developed and scaled microservices with Python FastAPI** for file processing, intelligent field extraction, configuration, and metadata management, significantly reducing processing latency and enabling faster document turnaround.
- **Implemented in-memory caching with TTL and cache invalidation strategies** to minimize redundant file reads and accelerate data retrieval.
- **Optimized system throughput and responsiveness** by parallelizing I/O-bound operations through **multithreading** and **asynchronous execution**, enabling smoother performance during high-volume data processing.
- **Accelerated CPU-intensive workflows** such as file parsing, text extraction, and data aggregation using **parallel processing**, enhancing resource utilization and reducing execution time for large-scale workloads by **35–40%**.
- **Implemented Micro-Frontend architecture** and refactored monolithic React codebase into modular applications, improving frontend performance by **30%** and enabling parallel team contributions.
- **Built BFF (Backend-for-Frontend) layers** to streamline frontend-backend connectivity, ensuring optimized payloads, consistent data flows, and improved API efficiency.
- **Optimized database performance** by implementing indexing strategies and query tuning, reducing complex query execution times by up to **50%**.
- **Developed interactive dashboards** using charts and graphs for real-time analytics, enhancing visibility into system health, mission data, and user metrics.
- **Transformed a legacy .NET backend** into a modern **Python Flask + PostgreSQL** system, improving scalability, maintainability, and reducing infrastructure costs.
- **Standardized UI with MUI theming** and delivered pixel-perfect UIs from Figma, improving design consistency, reducing redundant CSS by **40%**, and boosting user retention by **32%**.
- **Packaged and deployed services as RPM artifacts** across **Red Hat VMs**, ensuring reliable, repeatable deployments and seamless integration into enterprise environments.
- **Umami Analytics:** Integrated Umami Analytics to track custom events and user engagement across HIP-One modules, enabling data-driven insights into workflow efficiency and feature adoption.

- **Bash Scripting:** Automated daily reporting, database activity diagnostics, and system resource monitoring using cron-scheduled Bash scripts with support for SSH multiplexing, CSV generation, and log rotation to streamline operations and improve observability.
- **Established Git-based branching workflows** (GitFlow) across 4+ modules, facilitating parallel development, efficient code reviews, and smoother CI/CD integration.

Projects

1. org-chart-react (NPM Library)

Developed and published a customizable React component library to visualize hierarchical organizational structures with features like drag-and-drop navigation and expandable nodes.

Technologies Used: React.js, TypeScript, HTML, CSS, Webpack, NPM

Install Command: npm i org-chart-react.

Deployed URL: [React Organization Chart Library](#)

2. LLM-Powered Observability Suite (Genzeon Internal Hackathon)

Designed a modular observability system combining telemetry with LLM-driven intelligence for contextual alerts and root cause analysis. Built multi-agent pipelines for log/metric processing, with automated diagnostics, summarization, and Outlook-based alert delivery.

Technologies Used: OpenTelemetry, Prometheus, Grafana, Loki, Jaeger, LLM Agent, Outlook based alerting.

3. Animation Website

Built a website showcasing CSS-based loading animations with functionality to copy React components and styles for easy integration into external projects.

Technologies Used: React, JavaScript, Tailwind CSS, HTML, CSS, MUI

Deployed URL: [Animo Load](#)

Certifications

- Microsoft Certified: Azure Fundamentals (AZ-900).
- Microsoft Certified: Azure Data Fundamentals (DP-900).

Achievements

- Catalyst Award winner in Gen-Z-verse Hackathon.
- Gen-Z-verse Hackathon Winner.
- Genzeon Internal Hackathon Runner UP.
- National Means Cum Merit Scholarship Winner.
- National Go-kart Championship Bhopal, Winner.

Education

• Post Graduate Diploma in Advanced Computing

CDAC, ACTS Pune

Sep 2022 - Mar 2023

Grade: 77.85%

• Bachelor of Technology in Mechanical Engineering

TIT-Excellence, Bhopal

May 2018- May 2022

Grade: 88.90%