

Sarang Kumar

Bangalore, India

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Summary

Software Engineer with experience developing and supporting enterprise-scale applications across frontend, backend, and systems environments. Experienced in application development, REST APIs, relational and NoSQL databases, object-oriented programming, automated testing, CI/CD, production debugging, and Agile development. At Komprise, contributed to customer-facing production systems, cloud-storage workflows, reusable application infrastructure, production hotfixes, and automated testing. Proficient in C++, Java, Python, JavaScript/TypeScript, SQL, React, Node.js, MySQL, MongoDB, Docker, Jest, and Playwright.

Experience

Komprise India Private Limited

Software Engineer

Bangalore, India

Jul 2025 – Present

- Integrated Google Cloud Storage (GCS) filer and bucket onboarding workflows into the production codebase as a customer-critical hotfix, supporting cloud-storage adoption and contributing to retention of customer contracts worth approximately **\$200,000 annually**; investigated and resolved production issues across application workflows within release timelines.
- Developed the **Alerts Center** using React, JavaScript, Redux Toolkit, RTK Query, REST-based data flows, advanced filtering, global search, protected routing, and table-based data management for **12 months of historical operational data**.
- Modernized legacy modules and shared components using reusable software patterns, removing deprecated dependencies and associated vulnerabilities and reducing bundle size by approximately **120 KB**, improving application maintainability, performance, and reliability.
- Worked in an **Agile development environment with approximately 2-month release cycles**, participating in iterative development, feature delivery, testing, code reviews, and production releases; collaborated with engineering, UX, and business stakeholders to align implementation with product requirements.
- Introduced **Playwright-based UI/integration automation** for the React application and wrote **Jest unit tests** for application logic, expanding automated regression coverage, enabling earlier detection of UI and integration defects, and improving confidence in frequent production releases.
- Designed and implemented reusable frontend application components and shared UI infrastructure used across multiple product areas, reducing duplicated implementation and improving consistency and maintainability of enterprise application modules.
- Performed debugging and root-cause analysis for application issues across development, test, and production workflows, working with engineering teams to identify defects, implement fixes, and validate changes before release.
- Collaborated with **5+ cross-functional stakeholders**, including UX and engineering leadership, to define user flows and translate requirements into production-ready application designs; independently delivered features.
- Participated in the software development lifecycle from **requirements and application design through implementation, automated testing, code review, release, and production support**.

Komprise India Private Limited

Software Engineer Intern

Bangalore, India

Jan 2025 – Jun 2025

- Completed rotational engineering training across **Frontend, Backend, and Systems** teams in an Agile environment, contributing to enterprise-scale Data Store workflows, common application infrastructure, and internal operational platforms.
- Developed an internal utility platform using jQuery to monitor usage metrics, license expiration, and resource over-usage patterns across **450+ customer accounts**; wrote **Jest unit tests** to validate core utility functions and improve reliability.

Projects

Slack Shift Manager

Python, OOP, MySQL, Slack API

- Built a Python-based automation utility adopted by **12 support engineers** at Komprise, applying **object-oriented programming** and MySQL-based data management to automate engineer availability tracking and support-ticket allocation.
- Replaced recurring manual manager coordination with a database-driven workflow for engineer matching and ticket distribution, providing real-time Slack success/failure feedback through automated reactions.

Aatmatrishia & dotSlash 5.0 Platform

Next.js, MongoDB, Web Applications

- Served as Technical Head for Aatmatrishia, leading technical execution for PES University's annual techno-cultural fest supporting **5,000+ attendees** and large-scale event operations.
- Developed the dotSlash 5.0 platform for a **24-hour hackathon with 140+ participants**, implementing a QR-based ticketing workflow for attendee verification and event check-in.

NoteVault

Next.js, MongoDB, Markdown, Authentication, SEO

- Engineered a developer-focused note-taking platform with Markdown support, authentication, and interconnected note navigation, implementing contextual note-linking and Markdown-based editing workflows.
- Focused on maintainable application architecture and usability; open-source project with **26+ GitHub stars**.

Education

PES University

Bachelor of Technology in Computer Science Engineering — CGPA: 8.81/10

Bangalore, India

2021 – 2025

Technical Skills

Languages: C++, Java, Python, JavaScript, TypeScript, SQL **Databases:** MySQL, MongoDB

Software Engineering: Object-Oriented Programming, Data Structures & Algorithms, REST APIs, Application Design, Agile Development, Code Review, CI/CD

Testing: Jest, Playwright, Unit Testing, Integration Testing, UI Automation

Backend & Cloud: Node.js, Express.js, REST APIs, Google Cloud Storage, Docker

Frontend & Tools: React, Redux Toolkit, RTK Query, TanStack Table, Git, GitHub, Postman