

SHIVAM LAWALE

Software Developer & DevOps Engineer

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Summary

Systems and DevOps engineer with hands-on experience building operating-system-level software in C, offline-first desktop applications, and containerized deployment pipelines on GCP. GDG Cloud Lead, currently focused on infrastructure documentation and deployment automation.

Experience

Software Developer Intern – ApexaiQ

Q4 2025, Q1 2026 and Q3 2026

- Designed and deployed backend RESTful APIs to parse and route complex workflows, integrating server-side logic with internal tools to handle 2,500+ daily requests.
- Authored technical documentation for internal tools and workflows explored during the internship, and deployed the documentation site (built with Jekyll) via Docker for centralized team access – see apexaiq-docs.
- Began exploring infrastructure observability practices, including Prometheus and Grafana, to support incident triage and monitoring discussions with the platform team.
- Built a full-cycle test automation suite using Python and Selenium, ensuring cross-environment consistency for web and application interfaces.

Projects

local-res [Tauri, Next.js, Docker, Kubernetes]

Mar 2026 – Present

- Engineered a scalable, offline-first POS desktop application, ensuring data availability during network partitions by integrating a Tauri/SQLite frontend with a PostgreSQL cloud backend.
- Implemented multi-tenant security and automated scoping using Prisma extensions and Fastify's AsyncLocalStorage within a modular npm workspace architecture.
- Containerized microservices using Docker Compose and deployed production-ready infrastructure manifests across Kubernetes clusters.

Baseline x86_64 Kernel OS [C, Linux Kernel, QEMU, GitHub Actions]

Feb 2026 – Apr 2026

- Established a strong foundation in hypervisor architecture and cloud compute instances by configuring bare-metal hardware emulation and virtualization using QEMU.
- Engineered an x86_64 operating system in C, integrating BusyBox to construct a minimal root filesystem and successfully booting it within the virtualized environment.
- Streamlined the build and release lifecycle by implementing GitHub Actions CI/CD to automatically compile and deploy `bzImage` and `initramfs` artifacts.

apexaiq-docs [Jekyll, Docker, Markdown, Git]

July 2026 – August 2026

- Built and maintained a searchable technical documentation site using Jekyll, capturing tools, workflows, and internal processes explored during the ApexaiQ internship.
- Containerized the documentation site with Docker for consistent, portable deployment across environments.
- Organized documentation into structured, version-controlled categories covering internal tools and workflows, making it easier for future interns or teammates to ramp up.

Education

Bachelor of Engineering – Computer Science and Engineering

Jun 2023 – Jul 2027

Shri Sant Gajanan Maharaj College of Engineering, Shegaon

CGPA: 7.52

Skills

Frontend & Web: JavaScript, Next.js, HTML/CSS, Tauri, Hugo, Jekyll

Backend & Languages: Python, Rust, Node.js, Fastify, C++, Java, C, Bash, Go

Databases & Cloud: SQL, SQLite, PostgreSQL, RESTful APIs, Google Cloud Platform (GCP)

Tools & Environments: Git, GitHub Actions, Docker, Kubernetes, QEMU, Linux

Currently Learning: Terraform, AWS, Observability (Prometheus, Grafana)

Certifications and Achievements

- Google Cloud Computing Foundations (Infra, Data/ML, Security) — Google Cloud [Sep 2025 - Jan 2026]
- Data Structures and Algorithms using Java — NPTEL [Oct 2025]
- Red Hat System Administration — RH124 [Feb 2025 & Aug 2026] — Red Hat OpenShift Administration — D0180 [Aug 2026]

Leadership and Community

- ACM (Association for Computing Machinery) – Treasurer, 2025–2026
- GDG (Google Developer Groups) – Cloud Lead, 2025–2026