

Hriday Khanna

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GitHub: github.com/HridayKh ✉ Portfolio: HridayKh.in ✉ LinkedIn: linkedin.com/in/hridaykhanna

SUMMARY: Backend-focused Java developer with hands-on experience building and operating long-running, production-grade systems. Strong emphasis on HTTP fundamentals, authentication, correctness, observability, and CI/CD on cloud infrastructure. Experienced with both raw Servlet-based systems and modern Java frameworks. Seeking a backend or software engineering internship with a focus on systems and backend reliability.

SKILLS

- **Languages:** Java, SQL
- **Backend & Web:** Java Servlets, Spring Boot, Spring MVC, Quarkus, REST APIs, OAuth 2.0, JWT, Thymeleaf
- **Databases & Caching:** MySQL, Redis
- **DevOps & Infrastructure:** Docker, GitHub Actions, CI/CD, Linux, Git, Shell (Bash)
- **Observability:** Structured Logging (Log4j2, JBoss Logging), Error Tracking (Sentry)
- **Cloud:** Oracle Cloud Infrastructure (OCI), Google Cloud Platform (GCP)

PROJECTS

Core Java Authentication & Identity Service (Raw Servlet Stack) (Archived) | [GitHub Link](#)

Java, Java Servlets, REST APIs, OAuth 2.0, JWT, Linux, GitHub Actions, OCI

- Built an authentication and identity service directly on the Java Servlet API, intentionally avoiding frameworks to gain explicit control over HTTP lifecycles, filters, and request concurrency.
- Implemented request parsing, filter chains, session handling, and authentication flows manually, with a focus on correctness and predictable behavior under concurrency.
- Implemented **Google OAuth 2.0**, credential-based authentication, and **JWT-based stateless authorization**.
- Integrated structured logging and error tracking (Sentry) to support production debugging, incident analysis, and failure diagnosis.
- Automated builds and deployments using **GitHub Actions** with **self-hosted runners on OCI**.
- Deprecated after architectural learnings were migrated into newer systems, informing subsequent framework-based designs.

Community Engagement Bot (u/h-counter-bot) | [GitHub Link](#)

Java, Quarkus, REST APIs, MySQL, Linux, Docker

- Built and maintained a long-running Reddit bot in pure Java with a custom API client.
- Processes thousands of user-specific data points per run with predictable latency and bounded resource usage.
- Maintained zero unplanned downtime since deployment (July 2025) in a continuously running production environment.
- Designed sequential event processing to guarantee correctness and deterministic behavior under external API variability.
- Currently redesigning architecture to add caching, persistence, observability, and a public web-based leaderboard.

Dynamic URL Shortener and QR SVG Engine (WIP) | [GitHub Link](#) | [Live Link](#)

Java, Spring Boot, Spring MVC, Thymeleaf, REST APIs, Docker, Linux, GraalVM

- Building a **low-latency redirection service** with a server-rendered frontend and HTMX-based interactions.
- Structured the application for stateless request handling, enabling horizontal scalability and future Redis-backed caching.
- Built and deployed a **GraalVM native binary** to optimize cold-start performance.

EXPERIENCE

Frontend Software Engineering Intern — [Silverplexus](#)

- Updated and customized internal web pages using HTML and CSS within existing design systems.
- Contributed to internal experiments with a React-based task management frontend.
- Deployed and operated an internal AI automation pipeline using N8N, Docker, and Linux.
- Authored internal documentation covering system setup, deployment, and teardown procedures.

EDUCATION: Cambridge International School | India (Ending Class 11) | Expected Graduation: March 2027