

Riyaz Ali Kagzi

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About Me

I'm a Software Engineer with 6+ years of experience working on several networking and data processing and query problems that demand high levels of accuracy and correctness. I've also worked with several cloud service providers, such as AWS, Google, to manage fleets of self-service infrastructure, managing health and uptime of critical components.

I practice writing clean, maintainable, and testable code, and excel at solving complex software engineering problems. I've a good grasp of backend systems, databases, performance optimisations, and automation.

I'm also passionate about (and very optimistic for the future of) open source and contribute to many projects on GitHub. I maintain a couple of software libraries that are actively being used by other projects to provide their core functionality.

* - Open to self-fund relocation expenses

Technical Skills

Languages: Golang, Javascript (web & node.js), Python, Java, Ruby, Swift, SQL

Databases: PostgreSQL, Qdrant, SQLite, DynamoDB, Opensearch, MongoDB

Cloud: AWS**, GCP, DigitalOcean, Docker, Kubernetes, Microservices

AI: OpenAI (API), Qdrant, LocalAI, Ollama, LangChain, AWS Bedrock

Work Experience

Taghash / Senior Software Engineer

January 2021 - December 2022, October 2023 - July 2024, Bengaluru (remote)

Developed the next-gen management suite for Venture Capital / Private Equity firms.

Senior Software Engineer

October 2023 - July 2024 (Second tenure)

- Migrated to an automated CI setup, enhancing deployment and release velocity by 20%, by integrating advanced automation tools and practices
- Engineered a cutting-edge cloud deployment architecture on AWS, adhering to best practices
- Revamped in-product search API and reduced latency by 10% while adding more advanced features like Omni-search resulting in an improved user experience

Software Engineer

January 2021 - December 2022 (First tenure)

- Spearheaded the creation of an integrated information-reporting system, directly contributing to the acquisition of high-value sales customers by providing critical company metrics and insights.
- Engineered a valuation tracking and reporting system, enabling users to monitor key investment metrics such as IRR and MOIC, enhancing investment decision-making processes.
- Developed a WhatsApp-based chatbot integration, facilitating investment opportunity management within WhatsApp and boosting monthly active users (MAU) and daily user activity by over 25%.

MergeStat / Software Engineer

December 2022 - June 2023, New York City (remote)

Worked on enabling individuals and teams to ask critical questions about their code (are there any known CVEs?) and query for data in git (and other related platforms).

- Implemented a container-based data extraction platform that leverages docker containers to build an ELT-style pipeline, which also helped streamline the process of adding new sync-types
- Contributed several new sync types to the project including syncs for Grype, Gosec, along with migrations for older syncs to the new container-based architecture
- Implemented an extensible data model for adding arbitrary git providers with varying authentication models making the platform more extensible
- Explored and enabled certain security, compliance and audit related use cases enabling early users to adopt the product into their workflows

All my work is available as open-source at github.com/mergestat

Cloud Cover / Associate Software Engineer

November 2019 - January 2021, Pune (on-site)

Developed an internal, security-focused cloud platform that built upon capabilities of public cloud and added a rigorous security framework atop.

- Built a secure, cloud-first platform for financial corp, with support for custom-defined policies that were enforced at each step
- Developed integrations with public clouds (AWS / Azure), that provided a seamless, push-to-deploy model to improve developer experience
- Built on cloud-native tech stacks for modern applications that leveraged native cloud features like Load balancers, DNS, Object storage and more.
- The platform provided self-serve capabilities, where the user can provision infrastructure using Terraform, and the platform would apply it while still ensuring compliance with set policies

Chip Financial / Application Developer

November 2018 - October 2019, London (remote)

Worked on research & development of a proof-of-concept lending platform.

- Built core internal services to operate a peer-to-peer lending platform, including a double-entry ledger service, complete with end-to-end testing

- Managed Google Cloud infrastructure, ensuring security and optimal resource utilization by adhering to best practices.
- Integrated with various third-party services, including large credit bureaus, payment processors and customer-relation tools

Open Source

MergeStat mergestat.com (contributor)

MergeStat allows anyone to answer critical questions about their code with SQL, generate reports, perform status checks and more.

It uses [sqlite3.go](https://github.com/sqlite3/go) under-the-hood to expose data from git and other third-party systems (like, Github Issues) as SQL tables that can be used in query.

sqlite3.go go.riyazali.net/sqlite

Golang library to build sqlite3 extensions.

The library provides a low-level interface that allows you to build sqlite extensions.

httpx.go go.riyazali.net/httpx

Simple & Expressive HTTP testing library.

The library provides a minimal, yet powerful, function-driven framework to write simple and concise tests for HTTP

Education

MLSU / Bachelor Of Computer Applications

July 2016 - April 2019, Udaipur