

João Henri Carrenho Rocha

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Professional Experience

Software Engineer II

Google

- Working on Privacy, Safety, and Security at Google Admin.

Jul. 2024 – Present

São Paulo, BR - Hybrid

Senior Software Engineer

iFood

- Redesigned the geolocation-based curated lists index to efficiently handle 2 billion events daily, serving up to 600,000 requests per minute while achieving a cache-hit rate of over 95%.
- Implemented the first version of iFood's external API Merchant module.
- Developed a content delivery system capable of streaming more than 5 million events per minute with Golang, Kafka, and ScyllaDB.
- Designed and implemented a store availability system that handled 300.000 requests/minute and processed 50.000 events/minute with Kotlin and Postgres.
- Increased Merchant's microservices observability, created load-tests, and defined better K8s autoscaling rules, saving over \$20.000 monthly.
- Interviewed and onboarded several engineers and managers. Gave 20+ talks in recurring meetings to over 60 different members.

Jan. 2020 – Aug. 2022 & Feb. 2024 – Jul. 2024

São Paulo, BR - Remote

Open Source Software Engineer

Rancher by SUSE

- Worked on multi-cluster observability with AIOps on opni.io. Contributed the log capability to the OpenTelemetry Collector's OpenSearch exporter and extended Opni with tracing capabilities.
- Reworked the grafana-operator and contributed to the upstream repository.

Aug. 2023 – Dec. 2023

São Paulo, BR - Remote

Open Source

Kubernetes

SIG Network and SIG Release

- Development of kubernetes-sigs/kpng and its eBPF backend.
- Communications Team Shadow for v1.27.
- Minor contributions over kubectl and ingress-nginx.

Aug. 2021 – Present

CoreDNS

Linux Foundations' LFX Mentorship

- Added support to DNS-over-QUIC (RFC 9250). Contributed the QUIC server and the quic plugin.

Jun. 2023 – Aug. 2023

Education

Universidade de São Paulo

BSc in Computer Science. Networks, Databases, Distributed systems

Jan. 2020 – Jul. 2024

São Paulo, BR

Technical High School of UNICAMP

ASc in Information Technology. Backend and Web Development

Jan. 2017 – Dec. 2019

Campinas, BR

Research Presentations

Campos, B., Henri, J., et al. "Comparativo de Estratégias para Resposta a Emergências usando Redes Ad Hoc Veiculares e Computação em Névoa", in Companion Proceedings of the 41st Brazilian Symposium on Computer Networks and Distributed Systems, 2023, pp. 168-175.

Skills

Programming Languages: Golang, Kotlin, Python, Java, TypeScript, C++

Infra: Kubernetes, Docker, AWS, GCP, Postgres, Redis, Kafka

Languages: Portuguese (native), English (fluent)