

João Henri Carrenho Rocha

Universidade de São Paulo
Graduation: July 2024
São Paulo, SP, Brazil

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Professional Experience

Senior Software Engineer

Feb. 2024 – Present

iFood

São Paulo, BR - Remote

- Working on geospatially indexing iFood's home, search, and rankings content.
- Redesigned the geolocation-based curated lists index to efficiently handle 480 million events per day, serving up to 600,000 requests per minute, achieving a cache-hit rate of over 95%.

Open Source Software Engineer

Aug. 2023 – Dec. 2023

Rancher by SUSE

São Paulo, BR - Remote

- Worked on multi-cluster observability with AIOps on opni.io.
- Extended the logging plugin with trace collecting and ingesting capabilities. Contributed the log capability to the OpenTelemetry Collector's OpenSearch exporter.
- Reworked the grafana-operator and extended its features, including upstream.

Software Engineer

Jan. 2020 – Aug. 2022

iFood

Campinas, BR - Remote

- Implemented merchant's part of the new secure iFood external API.
- Developed a content delivery system capable of streaming more than 5 million events per minute with Golang, Apache Kafka, and ScyllaDB.
- Designed and implemented a system responsible for defining if a store was open and ready to receive orders, receiving around 300.000 requests/minute and processing 50.000 events/minute with Kotlin and Postgres.
- Increased observability through load-testing, better Kubernetes autoscaling rules, logs, metrics, and alerts for all Merchant's microservices, saving over \$10.000 monthly.
- Participated in rebuilding the Merchant squad, hiring and onboarding multiple managers and engineers. Gave 20+ talks in recurring meetings to over 50 different members.

Open Source

Kubernetes

Aug. 2021 – Present

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.

CoreDNS

Jun. 2023 – Aug. 2023

Linux Foundations' LFX Mentorship

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

Education

Universidade de São Paulo

Jan. 2020 – Jul. 2024

BSc in Computer Science. Networks, Databases, Distributed systems

São Paulo, BR

Technical High School of UNICAMP

Jan. 2017 – Dec. 2019

ASc in Information Technology. Backend and Web Development

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)