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.

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 5.000.000 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 300k requests/minute and processing 50k 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)