

João Pargana

Senior Software Engineer | Distributed Systems | High-Scale Backend | Go / Kafka / Kubernetes

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🔗 <https://github.com/jmpargana>

SKILLS

Languages

Go, Kotlin, Java, TypeScript

Cloud & Infra

Kubernetes, Terraform, Azure, AWS

Backend

Distributed Systems, Apache Kafka, Spring Boot

Observability

Grafana, Prometheus, PagerDuty

CI/CD

GitHub Actions, FluxCD, ArgoCD

Databases

PostgreSQL, MongoDB

OPEN SOURCE

containerd/nerdctl

Docker · containerd · Go · CLI

hovercraft-tech/compose-action

GitHub Actions · Docker · CI/CD

WORK EXPERIENCE

Senior Software Engineer, *tb.lx* by Daimler Truck

01/2024 – current

- Reduced storage costs by 500x by migrating data from MongoDB to blob storage with custom compression and encoding; implemented a fire-and-forget ingestion API with acceptable trade-off of <500ms added latency for long-term scalability and cost efficiency.
- Designed and implemented a scalable, distributed batch processing system using Spring Batch, Kafka, and async workflows to handle 10M+ requests across 100 clients within 12 hours, overcoming a 10 RPM and 2 minute latency external API bottleneck with an architecture that dynamically scaled to meet peak throughput.
- Reduced bug ratio to 1 per 5 features by integrating end-to-end smoke, regression, and load testing into Testkube, enabling real-time feedback in every pull request and deploy, and bridging the gap between QA and developers.
- Maintained 99.99% availability SLO and met all SLAs, with no more than one incident every three months resolved within 30 minutes, by fostering a high-ownership ops culture through improved observability, real-time dashboards, actionable alerts, and regular fire drills.

Engineering Lead, *tb.lx* by Daimler Truck

07/2022 – 06/2025 | Lisbon, Portugal

- Scaled the engineering team by 50% (8 to 12 devs) while maintaining 90% delivery throughput by fostering a culture of documentation, implementing structured onboarding, and delegating technical ownership to domain specialists.
- Led a 9-month application refactor by aligning stakeholder expectations and technical priorities, resulting in a feature delivery speedup from 3 months to 1 week, significantly improving product iteration and time-to-market.

CERTIFICATES

Certified Kubernetes Application Developer

The Cloud Native Computing
Foundation

EDUCATION

Bachelor's degree,

Computer Science

01/2018 – 12/2020

Bachelor's degree,

Music Performance, General

01/2012 – 12/2017

Software Engineer, Pflegewächter (Goodright GmbH)

01/2022 – 07/2022 | Hannover, Lower Saxony, Germany

- Designed and developed a user-friendly, low-complexity form to guide patients in self-evaluating care levels and initiating appeals, directly contributing to reaching over 10,000 users and unlocking €7M+ in financial benefits through improved accessibility and data accuracy.
- Built an internal PDF automation system that parsed patient data and pre-filled legal appeal documents, reducing lawyers' case preparation time from 3 weeks to 4 hours, dramatically accelerating processing of claims for financial care benefits.

Software Engineer, Link Consulting

01/2021 – 01/2022 | Lisbon, Portugal

- Implemented the OCPI protocol for MOBI.E's with distributed systems, enabling cross-border EV roaming by integrating with Dutch and Spanish eMSPs; supported the nationwide rollout to over 10,000 charge points and facilitated ~20,000 charging sessions daily at scale.
- Built a scalable, brand-agnostic frontend component library and backend platform for Caetano Auto, powering vehicle trade-ins, complex car search, and lead submission features across multiple brands including CarPlus and Hyundai, with future-proof architecture for rapid onboarding of new partners.

Mobile Application Developer,

Max Planck Institute for Empirical Aesthetics

10/2020 – 12/2021 | Frankfurt am Main, Hesse, Germany

- Developed a watchOS App for research purposes.

Software Engineer, PhysikOnline eLearning Department

10/2018 – 10/2019

- Refactored a university-wide URL shortener application in a part-time role while studying, using custom Meteor-based internal framework developed by Adornis Ventures.

Profile

Senior Software Engineer specializing in distributed backend systems and high-scale data processing. Designed and operated systems handling 10M+ requests/day, 100+ clients, and 99.99% availability SLOs. Strong background in system design, cost optimization, observability, and developer productivity. Experienced in leading cross-functional refactors and scaling engineering teams.