

Michael Krasa

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TECHNICAL SKILLS

Languages: Java, Python, Go, C++, Bash, SQL

Frameworks: FastAPI, Spring Boot, REST, gRPC, Protobuf, Kafka, Redis, PostgreSQL, S3, PyTorch, Kubernetes

Developer Tools: Docker, AWS, GCP, Bazel, Maven, Gradle, Git, Grafana, Linux, Claude Code, OpenAI Codex

EXPERIENCE

Software engineer 3

Sept. 2023 – Present

Oracle Corporation

Santa Clara, CA

- Owned and re-architected a multi-region distributed data platform, driving 30% higher sustained throughput while cutting compute costs by 25% through improvements in concurrency, load balancing, and failure handling.
- Led consolidation of fragmented onboarding flows into a self-healing installation system, reducing setup time from 30 minutes to 5 and improving customer onboarding reliability at scale.
- Designed and deployed a lightweight telemetry system across 200k+ agents, unlocking high-quality signals that directly shaped next-generation platform and product decisions.
- Strengthened engineering velocity and reliability by diagnosing and resolving a critical flaw in shared CI/CD infrastructure, saving 60+ hours of build time per week.

Software engineer 2

Oct. 2021 – Sept. 2023

Oracle Corporation

Prague, CZ

- Designed and scaled distributed data pipelines handling high-volume telemetry, improving throughput by 25% and enabling more reliable downstream analytics and model training workflows.
- Built Java microservices for large-scale agent telemetry ingestion and processing, reducing database contention by 20% through async RPC, caching, and optimized data access patterns.
- Built and maintained backend services for telemetry ingestion, validation, and aggregation, improving platform reliability for internal analytics and product teams.

Software engineer

May 2020 – Sept. 2021

Trisbee

Prague, CZ

- Overhauled testing strategy for core transaction pipelines, scaling coverage to 85%+ and significantly reducing post-deployment failures in production.
- Modernized and stabilized aging codebases, improving build and deployment efficiency by 20% and restoring long-term maintainability.

PROJECTS

Robot platform telemetry ingestion – FleetForge

- Built a distributed fleet telemetry platform from scratch (gRPC ingest, Kafka pipeline, stream processing, object storage + Postgres metadata index, FastAPI query API) to support raw and aggregated IoT data access.
- Applied first-principles data-system design for reliability at scale: Protobuf contracts, per-vehicle partitioning/order guarantees, at-least-once ingestion, idempotent deduplication, and backpressure controls.
- Delivered a self-service, operations-ready developer stack with Prometheus metrics, a live dashboard, and load-test tooling to validate performance and resilience.

Home Energy Storage Charge & Discharge Optimizer – AlphaESS

- Built a Python optimizer that schedules battery charge/discharge using Czech day-ahead prices at 15-minute granularity to maximize savings and grid efficiency.
- Developed an MCP server exposing structured AlphaESS inverter and battery telemetry, historical data, and control APIs for automation agents and external services.
- Created an async OTE-CR day-ahead price fetcher with robust retries and error handling for reliable real-time optimization inputs.

EDUCATION

University of Manchester

BSc Computer Science

Manchester, United Kingdom

Sept. 2018 – June 2021