Gernot “Garrett” Ohner

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SKILLS

- **Languages**: Kotlin, Java, SQL, TypeScript, Scala, C++, Python
- **Backend & Web**: Spring Boot, WebSockets, REST, OpenAPI, Gradle, Maven
- **Data & Storage**: PostgreSQL, MySQL, MongoDB, Snowflake, Redis, SpiceDB, Hibernate, jOOQ, Kafka, Kafka Streams
- **Tooling & Observability**: DataDog, OpenTelemetry, Grafana, Prometheus, Gatling, Cucumber
- **Cloud & Infra**: AWS (RDS, MSK, IAM, CloudWatch, ElastiCache), Google Cloud Platform, Docker, Kubernetes, Terraform, GitHub Actions, Distributed Systems

EXPERIENCE

JP Morgan Chase & Co, *Software Engineer*, Salt Lake City, UT **May 2024 – current**

- Designed and executed a zero-downtime migration of sensitive customer data from a legacy database, eliminating a biweekly multi-person manual production operation.
- Led technology selection for and contributed the majority of the codebase to our first Kotlin/Spring Boot microservice
- Implemented AWS IAM authorization for PostgreSQL and Redis connections to harden access to financial data in production.
- Proposed and implemented an API-first approach for microservices using OpenAPI 3.0 specification and OpenAPI generator for type-safe API specification adherence, improving cross-team integration velocity.
- Owned the internal spicedb-client Kotlin library, introducing a schema-aware, generics-based type-safe API that prevents an entire class of authorization errors at compile time.
- Introduced improved observability patterns (RUM-APM and APM-logging correlation, Live Debugger, Exception Replay), reducing MTTR of backend incidents and improving developer experience across distributed systems.
- Mentored engineers across multiple squads in Kotlin, Spring Boot, application internals, Debezium, and observability; routinely advised other teams and was recognized as a go-to resource and “Security Champion”.

Nuki GmbH, *Software Engineer*, Graz, Austria **Apr 2023 – Aug 2023**

- Reduced the latency of a customer-facing Spring Boot service by 10x by introducing async MongoDB I/O.
- Developed customer-facing full-stack features with Angular, TypeScript, Java, Spring Boot and MongoDB.
- Introduced static analysis using ESLint to two TypeScript applications and added types to 30% of the codebases, reducing runtime errors by 25%.

Locatee AG, *Software Engineer*, Zürich, Switzerland **Mar 2022 – Mar 2023**

- Optimized a key data transformation component to improve runtime per work job by 30x using Java, Spring Boot, MySQL, Hibernate, JOOQ, Kubernetes, Google Cloud Platform, Grafana and Prometheus.
- Built data pipelines transforming incoming WiFi, LAN and sensor events into workplace analytics for business customers, processing ~500k events per day using the Java Concurrency API and Project Reactor.
- Owned the Gatling performance testing application written in Scala and expanded test coverage by 4x.
- Introduced observability and profiling tools: Google Cloud Profiler, Cloud SQL Query Insights, MySQL performance schema and reduced DB load by 3x using the discovered information.
- Upgraded the main applications from Java 8 and 11 to Java 17.
- Reduced GitHub Actions CI/CD pipeline duration by 50% via build and test parallelization.
- Implemented front-end components with real-time updates using TypeScript, Angular and WebSockets.
- Led technical and behavioral interviews to hire backend engineers for the data transformation team.

Recurse Center, *Participant*, Brooklyn, New York **Aug 2021 – Nov 2021**

- Built a tree-walk interpreter for a dynamically typed programming language in Java and C++.
- Established and led a study club for compiler design and construction.

BearingPoint GmbH, *Senior System Analyst*, Graz, Austria **Dec 2019 – Jul 2021**

- Developed data streaming services in a distributed system processing approximately 2M GPS signals per day into logistics information (current status, route, ETA) for a major client.
- Launched Kafka Streams microservices to transform data based on client requirements using Kubernetes.
- Created REST endpoints and WebSockets exposing data from Kafka using Spring Boot microservices.
- Increased engineer effectiveness by reducing test running time by an average of 50% in three components and by automating tasks, such as evaluation of log output with Ruby.
- Implemented end-to-end tests covering Kafka Streams, Kafka Connect, MS SQL Server databases and Spring REST HTTP endpoints using Cucumber, thus testing 90% of the depth of the application.

EDUCATION

MSc, Computer Science, Weber State University, Ogden, Utah **Aug 2023 – Dec 2024**

BSc, Physics, Graz University of Technology, Graz, Austria **Oct 2014 – Apr 2018**