

Michel Bevilacqua

25.03.1987

Via Vecchie Scuole 12, 6598 Tenero, Ticino (Switzerland)

☎ (+41) 76 605 02 19 | ✉ michelbevilacqua@yahoo.it | 📱 Bevilh2o | 🌐 b87

Backend Engineer with a strong focus on performance, memory efficiency, and scalable data processing.

I design and build reliable backend systems with attention to resource usage, execution behavior, and long-term maintainability.

With a background in software architecture and database design, I enjoy analyzing how systems behave under load and optimizing them for efficiency and scalability.

Core Competencies

- Backend Development
- Performance Optimization
- Scalable Data Processing
- System Design Fundamentals
- Database Design & Query Optimization

Projects

Job Processing API in Go

Concurrent job processing system built in Go featuring REST APIs, PostgreSQL persistence, asynchronous worker pools, retry logic and background task execution using goroutines and channels.

Concurrent Task Queue in Go

Built a concurrent task queue in Go featuring worker pools, retry logic, graceful shutdown, and performance benchmarking. Implemented unit tests, race detection, and CI pipeline with GitHub Actions.

Concurrent Log Analyzer

Designed and implemented a Go application to process large log files using both sequential and concurrent architectures. Performed benchmarking and scaling analysis with worker-pool concurrency, achieving over 2x speed improvement for CPU-bound workloads while highlighting the limits of concurrency in IO-bound scenarios.

File Processing Benchmark

Designed and implemented a Go project comparing naive file loading with a streaming approach. Analyzed memory usage, allocations, and execution time. Demonstrated a reduction from ~2GB to ~170KB and ~3x faster execution using streaming I/O.

Experience

Brandmind GmbH

HEAD OF IT & BACKEND DEVELOPER

- Led the evolution of software architecture and IT infrastructure with a focus on backend systems and reliability.
- Designed data workflows and backend solutions improving performance and maintainability.
- Managed databases and system integrations across multiple projects.
- Collaborated with stakeholders to translate business needs into technical solutions.

Zurich • Switzerland

Feb. 2020 - Mar. 2025

Education

Advanced School in Computer Science and Business

BUSINESS DATA PROCESSING SPECIALIST (ADVANCED FEDERAL DIPLOMA OF HIGHER EDUCATION - BACHELOR EQUIVALENT)

Bellinzona • Switzerland

2015 - 2018

Technical Skills

Languages Go • Python • Java • C#

Backend APIs • Data Processing • System Design

Databases SQL • MySQL • Oracle

Concepts Performance • Memory Efficiency • Scalability

Tools Git • Linux • Docker