

# 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

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

## Projects

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### 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 ~3× faster execution using streaming I/O.

### Concurrent Log Analyzer

Designed and implemented a Go application to process large log files using both sequential and concurrent architectures. Conducted performance benchmarking and scaling analysis, achieving over 2× speed improvement with a worker-pool model and demonstrating the impact of CPU-bound workloads on concurrency efficiency.

## Experience

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### 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

### Locarno Film Festival

IT SECTOR INTERN

- Supported network infrastructure deployment and workstation setup.
- Developed PowerShell scripts to automate printer installation and reduce manual work.

Zurich • Switzerland

Jul. 2019 - Aug. 2019

## Education

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### English Course (C1)

EC ENGLISH LANGUAGE CENTRES

Los Angeles • U.S.A

Sept. 2018 - Feb. 2019

### 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

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**Languages** Go • Python • Java • C#

**Backend** APIs • Data Processing • System Design

**Databases** SQL • MySQL • Oracle

**Concepts** Performance • Memory Efficiency • Scalability

**Tools** Git • Linux • Docker (local development)