

# ELIÃ RAFAEL DE LIMA BATISTA

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6963 Pregassona, Ticino, Switzerland

*Valid Swiss Work Permit / Available to relocate or commute*

## EDUCATION

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|---------------------------------------------------------------------|-----------------------------|
| <b>PH.D. in Informatics</b>                                         | 2021 – Feb 2026 (expected)  |
| <i>Università della Svizzera Italiana (USI)</i>                     | <i>Lugano, Switzerland</i>  |
| <b>M.Sc. in Computer Science</b>                                    | 2018 – 2020                 |
| <i>Pontifical Catholic University of Rio Grande do Sul (PUC-RS)</i> | <i>Porto Alegre, Brazil</i> |
| <b>B.Sc. in Computer Science</b>                                    | 2006 – 2011                 |
| <i>Pontifical Catholic University of Rio Grande do Sul (PUC-RS)</i> | <i>Porto Alegre, Brazil</i> |

## PROFESSIONAL SUMMARY

Backend-focused Software Engineer with 10+ years of experience in **Java**, distributed systems, backend services, and event-driven architectures. Strong background in **Spring/Spring Boot**, **JPA/Hibernate**, REST APIs, and messaging systems. Experience building fault-tolerant systems, developing performance-oriented backend components, and deploying production services. Passionate about financial systems, trading platforms, and scalable backend architectures.

## PROFESSIONAL EXPERIENCE

|                                                                                                                                     |                            |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| <b>Research and Development Engineer</b>                                                                                            | 2021 – Present             |
| <i>Università della Svizzera Italiana (USI)</i>                                                                                     | <i>Lugano, Switzerland</i> |
| – Designed and implemented core components for <b>fault-tolerant distributed systems</b> using <b>Java, Go, and Python</b> .        |                            |
| – Developed high-performance replicated system modules with focus on <b>state management, recovery, and message ordering</b> .      |                            |
| – Worked with event-driven designs and communication overlays relevant to <b>atomic multicast</b> and real-time message processing. |                            |
| – Administered and optimized a <b>Linux cluster</b> , including deployment, testing, and monitoring workflows.                      |                            |
| <b>Senior Software Developer</b>                                                                                                    | 2017 – 2020                |
| <i>Compasso UOL</i>                                                                                                                 | <i>Brazil</i>              |
| – Led development of production-grade backend and full-stack applications using <b>Java, Node.js, React</b> , and RESTful APIs.     |                            |
| – Integrated complex business logic and contributed to scalable, modular backend architectures.                                     |                            |
| – Participated in <b>code reviews, CI/CD</b> , and team mentoring.                                                                  |                            |
| <b>System Analyst</b>                                                                                                               | 2014 – 2017                |
| <i>Bem Promotora</i>                                                                                                                | <i>Brazil</i>              |
| – Developed <b>financial and loan-processing</b> ERP modules using SQL Server and enterprise backend patterns.                      |                            |
| – Implemented data workflows and business rules ensuring accurate settlement and reporting processes.                               |                            |
| <b>Software Developer</b>                                                                                                           | 2010 – 2013                |
| <i>DBServer</i>                                                                                                                     | <i>Brazil</i>              |
| – Developed backend modules and ERP features for major retail clients using Microsoft technologies.                                 |                            |

- Designed efficient database procedures and optimized SQL queries for high-volume operations.

### Software Developer

*Vensis*

2008 – 2010

*Brazil*

- Built general-purpose ERP modules and backend business logic.
- Optimized SQL Server operations, improving system performance and stability.

## SKILLS

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**Java Ecosystem:** Java 8–21, Spring Boot, Hibernate/JPA, Maven, Gradle.

**Event-Driven & Messaging:** Kafka, RabbitMQ (experience with distributed communication patterns).

**DevOps & Tools:** Docker, Jenkins, GitHub, CI/CD pipelines.

**Databases:** PostgreSQL, MySQL, SQL Server, MongoDB, FirebaseDB.

**Cloud:** AWS (basic), Linux server administration.

**Languages:** English (fluent), Italian (intermediate), Portuguese (native).