

# ELIÃ RAFAEL DE LIMA BATISTA

77-992-5544 | [o.elia.batista@gmail.com](mailto:o.elia.batista@gmail.com) | [linkedin.com/in/e-batista](https://linkedin.com/in/e-batista) | [elbatista.github.io](https://elbatista.github.io)  
6963 Pregassona, TI, Switzerland

## EDUCATION

### Ph.D. in Informatics

*Università della Svizzera Italiana (USI)*

2021 – Present

*Lugano, Switzerland*

### M.Sc. in Computer Science

*Pontifical Catholic University of Rio Grande do Sul (PUC-RS)*

2018 – 2020

*Porto Alegre, Brazil*

### B.Sc. in Computer Science

*Pontifical Catholic University of Rio Grande do Sul (PUC-RS)*

2006 – 2011

*Porto Alegre, Brazil*

## PROFESSIONAL SUMMARY

Senior Software Engineer with extensive experience in backend system design, high-availability architecture, and distributed systems. Proficient in **Java**, **Go**, **Node.js**, and **ReactJS**, with strong expertise in RESTful API design, relational (MySQL, SQLServer) and distributed NoSQL databases (Mongo, Firebase). Experienced in capacity planning, performance optimization, debugging, and cloud deployment, with a focus on scalability, reliability, and security. Demonstrated technical leadership, mentoring, and cross-team collaboration skills.

## PROFESSIONAL EXPERIENCE

### Research and Development

*Università della Svizzera Italiana (USI)*

2021 – Present

*Lugano, Switzerland*

- Designed and implemented backend services and distributed system components using **Go**, **Java**, and **Python** with a focus on high availability, fault tolerance, and performance optimization.
- Managed Linux clusters and distributed environments for testing and research, simulating large-scale deployments and recovery scenarios.
- Provided mentorship and guidance to junior engineers and students on system architecture, debugging, and code optimization.
- Authored and reviewed technical documentation for distributed components and API design.

### Senior Software Developer

*Compasso UOL*

2017 – 2020

*Brazil, RS*

- Developed scalable backend and frontend services and RESTful APIs using **Node.js** and **ReactJS**, integrating with relational and NoSQL databases for enterprise applications.
- Led backend development projects, ensuring adherence to high-availability standards, fault-tolerant design, and efficient data handling.
- Collaborated with cross-functional teams to define technical strategy, project priorities, and deliverables.
- Participated in projects with CI/CD pipelines and containerized deployments using Docker.

### System Analyst

*Bem Promotora*

2014 – 2017

*Brazil, RS*

- Developed and maintained **ERP modules** for a credit payroll loan financial company linked to Banrisul, a major bank in Southern Brazil.

- Analyzed, documented, and communicated new system features to the development team to improve business process efficiency.
- Implemented complex business rules and data processing using **SQL Server** stored procedures for accurate loan management and reporting.

### **Software Developer**

2010 – 2013

*Brazil, RS*

*DBServer*

- Developed and customized ERP modules tailored for a major fuel retail network (Ipiranga) in Brazil, improving operational efficiency and sales tracking.
- Integrated and managed backend logic with **SQL Server** for efficient data storage and retrieval.

### **Software Developer**

2008 – 2010

*Brazil, RS*

*Vensis*

- Built and maintained general-purpose ERP modules, adaptable for various enterprise environments.
- Optimized **SQL Server** queries and stored procedures to boost system performance and data consistency.

---

## SKILLS

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

**Programming Languages:** Go, Java, Python, JavaScript, SQL, Bash Script.

**Backend & Systems:** RESTful API design, high-availability systems, distributed systems, debugging, performance optimization.

**Databases:** SQLServer, MySQL, MongoDB, Firebase.

**Cloud & DevOps:** Linux, Docker, CI/CD pipelines, cloud deployment.

**Leadership:** Technical leadership, mentoring, cross-team collaboration, project strategy and roadmap support.

**Soft Skills:** Analytical problem-solving, capacity planning, experimental mindset, Agile methodologies.