

ELIÃ RAFAEL DE LIMA BATISTA

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PhD Candidate in Informatics at University of Lugano (USI)

6963 Pregassona, TI, Switzerland

Working Permit: Swiss Permit B | Available for Relocation, Remote Work or Hybrid

EDUCATION

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

PROFESSIONAL SUMMARY

Software engineer and researcher with over **10 years** of experience designing and implementing high-performance software and fault-tolerant systems. Currently a **Ph.D. candidate** and researcher at Università della Svizzera Italiana (USI) in Lugano, Switzerland, specializing in distributed systems. Proficient in **Java**, **Node.js**, **Go** and **Python** for back-end development, and skilled in **ReactJS**, **Next.js**, and **React Native** for front-end and mobile applications. Experienced in **Linux environments**, **system optimization**, and **leading development teams**. Passionate about building robust systems that connect cutting-edge engineering with real-world impact.

PROFESSIONAL EXPERIENCE

Research and Development <i>Università della Svizzera Italiana (USI)</i>	2021 – Feb 2026 <i>Lugano, Switzerland</i>
<ul style="list-style-type: none">Conducted research and development in distributed systems using Java, Go, Python, C, and Bash on Linux environments. Administered a Linux cluster, developed core replicated systems components focusing on performance and fault tolerance, and authored research papers for top distributed systems conferences. Also a Teaching assistant for Operating Systems, Systems Programming, and Distributed Algorithms courses.	
Senior Software Developer <i>Compasso UOL</i>	2017 – 2020 <i>Brazil, RS</i>
<ul style="list-style-type: none">Led the development and developed scalable full-stack web applications using ReactJS and Node.js, contributing to architecture decisions and continuous integration workflows.Built and maintained cross-platform mobile applications with React Native, integrating secure and performant RESTful APIs for enterprise clients.Collaborated with UI/UX designers to implement responsive, user-centric features, improving engagement and usability across platforms.Contributed to Agile processes (SCRUM), code reviews, and mentoring of junior developers in modern JavaScript and mobile best practices.	
System Analyst <i>Bem Promotora</i>	2014 – 2017 <i>Brazil, RS</i>
<ul style="list-style-type: none">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

DBServer

Brazil, RS

- Developed and customized ERP modules using **Microsoft Visual Basic** 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

Vensis

Brazil, RS

- Built and maintained general-purpose ERP modules with **Microsoft Visual Basic**, 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: Java, JavaScript/TypeScript, HTML/CSS, C/C++, SQL, Go, PHP, Visual Basic.

Frameworks & Methodologies: ReactJS, Node.js, React Native, Next.js, Agile, SCRUM.

Developer Tools & Platforms: Git, Maven, Gradle, REST APIs, VS Code.

Databases & Storage: SQL Server, PostgreSQL, MongoDB, MySQL, Firebase.

Cloud Services: Firebase (Hosting, Auth, Functions), Basic knowledge of AWS cloud services

Distributed Systems: State Machine Replication, Multicast Protocols, State Management, Blockchains.