

ELIÃ RAFAEL DE LIMA BATISTA

77-992-5544 | o.elia.batista@gmail.com | linkedin.com/in/e-batista | elbatista.github.io

EDUCATION

University of Lugano (USI) <i>PhD in Informatics</i>	Lugano, Switzerland 2021 – Present
PUC-RS <i>MSc in Computer Science</i>	Porto Alegre, Brazil 2018 – 2020
PUC-RS <i>BSc in Computer Science</i>	Porto Alegre, Brazil 2006 – 2011

EXPERIENCE

PhD Researcher <i>University of Lugano (USI)</i>	2021 – Present Lugano, Switzerland
<ul style="list-style-type: none">Conducted research and development in distributed dependable systems using Java, Go, Python, C, and Bash on Linux environments.Administered Linux clusters supporting experimental distributed systems.Developed core SMR components and multicast algorithms focusing on performance and fault tolerance.Authored and reviewed papers for top distributed systems conferences.Teaching assistant for Operating Systems, Systems Programming, and Distributed Algorithms courses.	
Senior Software Developer <i>Compasso UOL</i>	2017 – 2020 Brazil, RS
<ul style="list-style-type: none">Led the development of scalable full-stack web applications using React and Node.js, contributing to architecture decisions and continuous integration workflows.Built and maintained cross-platform mobile applications with React Native and TypeScript, 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 Brazil, RS
<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 BrazilAnalyzed, documented, and communicated new system features to the development team to improve business process efficiencyImplemented complex business rules and data processing using SQL Server stored procedures for accurate loan management and reportingInteracted closely with stakeholders to analyze requirements, define features, and ensure alignment with financial regulations and business needs	
Software Developer <i>DBServer</i>	2010 – 2013 Brazil, RS
<ul style="list-style-type: none">Developed and customized ERP modules using Microsoft Visual Basic tailored for a major fuel retail network (Ipiranga) in Brazil, improving operational efficiency and sales trackingIntegrated and managed backend logic with SQL Server for efficient data storage and retrieval	
Software Developer <i>Vensis</i>	2008 – 2010 Brazil, RS
<ul style="list-style-type: none">Built and maintained general-purpose ERP modules with Microsoft Visual Basic, adaptable for various enterprise environmentsOptimized SQL Server queries and stored procedures to boost system performance and data consistency	

PUBLICATIONS

Eliã Batista, Paulo Coelho, Eduardo Alchieri; Fernando Dotti; Fernando Pedone. ***FlexCast: Genuine Overlay-based Atomic Multicast***. Proceedings of the 24th International Middleware Conference, Bologna, Italy, 2023.

Eliã Batista, Eduardo Alchieri; Fernando Dotti; Fernando Pedone. ***Early Scheduling on Steroids: Boosting Parallel State Machine Replication***. Journal of Parallel and Distributed Computing, Volume 163, May 2022.

Eliã Batista, Eduardo Alchieri; Fernando Dotti; Fernando Pedone. ***Resource Utilization Analysis of Early Scheduling in Parallel State Machine Replication***. Proceedings of the 9th Latin-American Symposium on Dependable Computing, Brazil, 2019.

TECHNICAL SKILLS

Languages Spoken: Portuguese (native), English (fluent), Italian (intermediate)

Languages: Java, JavaScript, HTML/CSS, C/C++, SQL (SQL Server), Go, PHP, Visual Basic

Frameworks, Methodologies & Libraries: React, Node.js, React Native, Next.js, Typescript, Material-UI, Express.js, Agile, SCRUM

Developer Tools & Platforms: Git (Github, Gitlab, Bitbucket), Maven, Gradle, REST APIs, VS Code, Visual Studio, IntelliJ, Eclipse, Postman, Swagger

Databases & Storage: SQL Server, PostgreSQL, Firebase Realtime Database, Firestore

Cloud Services: Firebase Hosting, Firebase Authentication, Firebase Functions, Basic knowledge of AWS cloud services

Distributed Systems: State Machine Replication, Atomic Broadcast, BFTSMaRt, Paxos

Personal Hobby Project: wondersofswitzerland.com — a hobby project written in Next.js showcasing family-friendly destinations for tourists across Switzerland