# Eliã Rafael de Lima Batista

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## EDUCATION

**University of Lugano (USI)**  Lugano, Switzerland
*PhD in Informatics*  *2021 – Present*

**PUC-RS**  Porto Alegre, Brazil
*MSc in Computer Science*  *2018 – 2020*

**PUC-RS**  Porto Alegre, Brazil
*BSc in Computer Science*  *2006 – 2011*

## EXPERIENCE

**PhD Researcher**  Feb. 2021 – Present
*University of Lugano (USI)*  *Lugano, Switzerland*

- Java-based research and development in distributed dependable systems.
- Developed core SMR framework components in Java, focused on performance and fault tolerance.
- Implemented multicast algorithms in Java for reliable distributed communication.
- Extensive Java experience with multithreading, networking, and benchmarking.

**Senior Software Developer**  2017 – 2020
*Compasso UOL*  *Brazil, RS*

- Full-stack Web Developer — React, Node.js
- Mobile App Developer — React Native, RESTful APIs

**System Analyst**  2014 – 2017
*Bem Promotora*  *Brazil, RS*

- Analyzed and documented new ERP system features to support business process improvements
- Developed and optimized stored procedures in SQL Server for data processing and reporting

**Software Developer**  2010 – 2013
*DBServer*  *Brazil, RS*

- Developed and maintained ERP modules using Microsoft Visual Basic to streamline business operations
- Integrated and managed backend logic with SQL Server for efficient data storage and retrieval

## 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, 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

**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