Eliã Rafael de Lima Batista

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6963 Pregassona, TI, Switzerland

Valid B Working Permit for Switzerland

Education

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

Professional Summary

Software engineer and researcher with **10+ years of experience** designing scalable, high-performance software and distributed systems. Skilled in **ReactJS, Next.js, TypeScript, Node.js, and cloud-based frontend development**, with strong expertise in **user-facing features, automated testing (TDD/BDD), and Agile workflows**. Experienced in **Linux environments**, system optimization, and leading development teams. Passionate about building robust, secure, and maintainable software that connects cutting-edge technology to real-world impact.

Professional Experience

Research and Development — 2021 – Present
Università della Svizzera Italiana (USI) — *Lugano, Switzerland*

- Designed and implemented distributed systems and cloud-based components in **Java, Go, and Python**, focusing on **performance, scalability, and fault tolerance**.
- Implemented automated testing and CI pipelines to ensure high-quality software releases.
- Teaching assistant for Operating Systems, Systems Programming, and Distributed Algorithms; mentored students in best practices for software design, testing, and agile development.

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

- Led frontend and full-stack development using **ReactJS, Next.js, React Native, Node.js, and TypeScript**, delivering scalable user-facing features.
- Integrated secure and performant **RESTful APIs** for enterprise applications.
- Implemented **automated testing** (unit, integration) to reduce bugs and maintain high-quality releases.
- Collaborated with designers and product owners in an **Agile SCRUM environment** to deliver user-centric solutions efficiently.
- Mentored junior developers in ReactJS, TypeScript, and cloud frontend development best practices.

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

- Developed ERP modules and backend services using **SQL Server**, optimizing data workflows and system performance.

- Collaborated with stakeholders to design and implement user-facing features for internal enterprise tools.

Software Developer   2010 – 2013
DBServer   *Brazil, RS*
- Developed ERP modules with **Microsoft Visual Basic** and **SQL Server**, improving operational efficiency.

Software Developer   2008 – 2010
Vensis   *Brazil, RS*
- Built and maintained ERP modules, optimizing database queries and performance with **SQL Server**.

Skills

Programming Languages: JavaScript, TypeScript, Java, Go, Python, HTML/CSS, SQL, C/C++, PHP, Visual Basic

Frontend/Cloud Frameworks: ReactJS, Next.js, React Native, Node.js, REST APIs, Firebase, AWS (basic)

Testing: TDD, BDD, unit/integration testing, automated pipelines

Methodologies: Agile, SCRUM, CI/CD workflows

Databases: SQL Server, PostgreSQL, MongoDB, Firebase Realtime Database

Distributed Systems: State Machine Replication, Multicast Protocols, State Management, Scalable architectures

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