# Lucas Pereira da Silva

## General Information

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## About

My journey in technology began in 2006, blending academic research with hands-on software development. With expertise spanning backend, frontend, and mobile development, I specialize in building scalable systems, particularly RESTful APIs.

With broad experience across multiple technology domains, I've developed strong adaptability and fast learning capabilities. As a self-motivated professional, I'm equally effective at working independently or collaborating in teams. I thrive in acquiring new skills and can quickly become proficient with any technology stack required. Additionally, my academic experience includes teaching programming and software testing, strengthening my ability to mentor and collaborate effectively in technical teams.

## Experience

### 08/2024 - present

**Senior Backend Engineer** at Ratio Technologies – United States (remote, full-time)

Implementation of RESTful APIs in a microservices architecture; development of a fintech platform integrated with several external systems such as Stripe, GoCardless, Salesforce, BoldSign, Experian, Plaid, LaunchDarkly and SendGrid; Java/Kotlin development with Spring Boot; PostgreSQL and MongoDB databases; Redis key-value store database.

### 10/2023 – 08/2024

**Senior Software Engineer** at FullStack Labs – United States (remote, full-time)

I was initially employed by FullStack Labs as an outsourced contractor assigned to Ratio Technologies. After demonstrating my contributions, Ratio offered me a direct position, where I continued performing the same role with expanded responsibilities.

### 09/2021 – 10/2023

**Senior Software Engineer** at Communication Security Group – Brazil (hybrid, full-time)

Android and iOS team lead; responsible for driving the client product architecture; continuous integration and continuous delivery using Bamboo pipelines; Android development with Java and Kotlin; iOS development with Swift and Objective-C; SQLite database.

## 01/2020 – 09/2021

**Software Development Manager** of *Course Monitoring and Evaluation System (SAAS)* at Federal University of Santa Catarina – Brazil (on-site, part-time)

Development team manager; product software architecture; training of developers enrolled at the project; continuous integration and continuous deployment using GitLab pipelines with Docker; JavaEE development with PrimeFaces; RESTful APIs design and implementation using Jersey; PostgreSQL database; automated software testing with Selenium and JUnit.

## 05/2017 – 09/2021

**System Analyst** at Federal University of Santa Catarina – Brazil (on-site, full-time)

Development and maintenance of software products used for internal procedures of the university; redesign of server's infrastructure; Java Virtual Machine tuning for JBoss servers; Java development with Spring Boot and PrimeFaces; Sybase, Oracle, PostgreSQL and MySQL databases.

## 02/2017 – 06/2017

**Substitute Teacher** of the *Software Testing Course* at University of the Vale do Itajaí – Brazil (contract, on-site)

Software testing classes for graduate students; fundamental principles of software testing; unit testing with JUnit; system and acceptance testing using Selenium and Cucumber; Test Driven Development; testing techniques such as parameterized tests, mocks and stubs; testing design patterns; test code smells.

## 10/2016 – 05/2017

**Full-stack Developer** at Britehouse – South Africa (remote, full-time).

Development of short-time projects; backend development using Node.js; development of front-end applications using Angular.js and React.js frameworks; JavaScript and TypeScript development; MongoDB database.

## 07/2014 – 04/2015

**Software Developer** at Lepidus Tecnologia, Florianópolis – Brazil (on-site, full-time).

JavaEE development; RESTful APIs development using Dropwizard; front-end development with FreeMarker, Bootstrap and JavaScript; plugin development for Open Journal Systems (OJS) with PHP and CSS; CouchDB and MySQL databases.

## Education

### 2024 - present

**Ph.D. student** in *Computer Science*.
Federal University of Santa Catarina – Brazil.
Thesis: Automatic Test Class Refactoring Using Similarity Metrics and Clustering Algorithms.

### 2014 - 2016

**Master's degree** in *Computer Science*.
Federal University of Santa Catarina – Brazil.
Dissertation: Reuse of Code and Execution of Test Fixtures between Test Classes.

**Bachelor's degree** in *Computer Science*.
Federal University of Santa Catarina – Brazil.
Course completion assignment: Webis: a Language and an Accessible Programming Environment.

**Associate degree** in *Computer*.
Federal Institute of Santa Catarina – Brazil.
Course completion assignment: Computer Solutions.

## Computer Skills

- Object-oriented programming languages and design patterns.
- Software testing, Test-Driven Development and Behavior-Driven Development.
- Back-end development.
- Front-end Web development.
- Android development.
- iOS development.
- Agile software development practices.
- Design of RESTful APIs.
- Software architecture design.
- Continuous Integration and Continuous Delivery.
- Linux.

## Languages

**Portuguese:** native proficiency.
**English:** full professional proficiency.

## Publications

### 2021

**Lucas Pereira da Silva** and Patrícia Vilain. *Estória: A Framework for Code and Execution Reuse between Test Classes*. Journal of Computer Science.

### 2020

**Lucas Pereira da Silva** and Patrícia Vilain. *LCCSS: A Similarity Metric for Identifying Similar Test Code*. In: 14th Brazilian Symposium on Software Components, Architectures, and Reuse.

### 2017

**Lucas Pereira da Silva** and Patrícia Vilain. *Reuse of Fixture Setup between Test Classes*. In: 29th International Conference on Software Engineering and Knowledge Engineering.

### 2016

**Lucas Pereira da Silva** and Patrícia Vilain. *Execution and Code Reuse between Test Classes*. In: 14th International Conference on Software Engineering Research, Management and Applications.

## Awards

### 2020

3rd best paper award of the 14th Brazilian Symposium on Software Components, Architectures, and Reuse, Brazilian Conference on Software.

### 2014

Student Merit Award. Best graduate student of Computer Science, Federal University of Santa Catarina, Florianópolis – Brazil.