

Sergio Ricardo Bernardi Junior

Senior Software Engineer

👤 Profile

Senior Software Engineer and eternal apprentice. 10 years of experience in web applications they were focused on building solutions from scratch with cloud providers, infra as a code and development around the JavaScript ecosystem.

Details

📍 Pedreira, Sao Paulo, Brazil

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Links

[LinkedIn](#) [GitHub](#)

Languages

English | Portuguese

Skills

Node.js | React | Redux | Next.js
JavaScript | TypeScript | AWS | GCP
Git | GitHub Actions | Azure DevOps
AWS CodePipeline | CI/CD | SQL
noSQL | MongoDB | DynamoDB |
Docker | Unit Test | Integration Test
Terraform | Serverless Framework |
SOLID | Hexagonal Architecture
Architecture Design | Microservices
Feature Toggle | RBAC | DDD
Low Code (Make, Retool)
Analytics (GA, Heap)

🎓 Education

Bachelor of Computer Science, UniFAJ

January 2011 — December 2015

📜 Certifications

AWS Certified Developer - Associate, Amazon Web Services

December 2023 — December 2026 — Credential Number: J18SW4CLS2E1QM5F

AWS Certified Solution Architect - Associate, Amazon Web Services

October 2023 — October 2026 — Credential Number: 2S7M2J2K8EQE1DGE

AWS Certified Cloud Practitioner, Amazon Web Services

June 2020 — June 2023 — Credential Number: L8832D81E1F11BG9

Scrum Fundamentals Certified, SCRUMstudy

October 2019 — October 2022 — License Number: 735811

💼 Employment History

Senior Software Engineer at Torc December 2024 — Present

PENNYMAC PROJECT

Worked on a confidential Horizon project using React, Node.js with TypeScript, and AWS. I improved an existing payload transformation system that processed large payloads (5MB+) by migrating it from AWS Lambda to ECS Fargate, resulting in a 73% reduction in average response time from 15 seconds to 4 seconds. I also enhanced the webhook handling service by adding reprocessing capabilities with SQS and DLQ, which reduced event loss to under 5%, even with scenarios involving malformed payloads or authorization issues.

Senior Software Engineer at Fullstack Labs January 2024 — December 2024

CURRENTS MARKET PROJECT

Worked as a Senior Fullstack Engineer at a startup that provides a B2B marketplace for buying and selling electric batteries. My main responsibilities was making refinements for the next features and developing this PaaS from scratch, using GCP for cloud services, Node.js + TypeScript with Cloud functions for backend operations, React for user interfaces, and Tailwind CSS for styling. Additionally, I was responsible for understanding the project's architecture, including CI/CD practices and code standards.

Senior Software Engineer at CI&T June 2022 — December 2023

ECHOENERGIA PROJECT

Built the entire platform from scratch for a wind energy client, where I developed and designed features such as a customer portal and an energy savings simulator. I also integrated the platform with external services like Pipefy, DocuSign, and Salesforce, which were crucial for automating workflows, managing electronic signatures, and synchronizing customer data, thus enhancing overall operational efficiency. This transformation reduced proposal generation time from 3 days to an average of 15 minutes, increasing weekly output from 5 to 30 proposals depending on demand.

I played a key role in designing the project architecture, defining initial technologies and patterns, and configuring the cloud provider. I utilized TypeScript with Node.js for backend development and React for building the user interface, leveraging AWS for cloud infrastructure. This included designing and implementing a complete CI/CD

pipeline using AWS services such as CodePipeline, CodeDeploy, and CodeBuild, along with tests and quality gateways. Additionally, I used Terraform to create isolated environments (dev/stage/prod), enabling efficient management of AWS resources, including AWS Lambda, DynamoDB, API Gateway, CloudFront, S3, and Cognito. I actively contributed to task prioritization and the project roadmap with stakeholders and the team, helping to define priorities and refine stories.

COSTA COFFEE PROJECT

I participated in the customer's market growth strategy in India by managing user systems with Azure B2C and creating infrastructure on AWS using Terraform and the Serverless framework. I was involved in designing and constructing microservices with AWS resources, including RDS, SQS, DynamoDB, SNS, SES, Lambda, and EventBridge. I customized the authentication and authorization system with Azure B2C, implemented CI/CD pipelines using GitHub Actions, and employed infrastructure as code with the Serverless Framework and Terraform. Additionally, I developed Lambda functions with Node.js, utilizing AWS SDK and Jest for testing.

Software Engineer at CI&T January 2020 — June 2022

Developed a platform that addressed critical issues for over one million students, including class management, re-enrollment, financial debt resolution, and course content delivery. I worked with TypeScript and Node.js on the backend, and React with Redux on the frontend. My responsibilities included data structuring with MySQL, Oracle, and NoSQL databases using Amazon RDS and DynamoDB. I also implemented automated testing using BDD with Cucumber, Chai, and Protractor, and TDD with Jest and React Testing Library. The project utilized patterns such as Feature Flag, Backend for Frontend (BFF), and Circuit Breaker to ensure reliability and flexibility in the system.

Operations Analyst at Plus-IT Consulting December 2018 — December 2019

Led the restructuring and migration of the Moodle monolith to a microservices architecture using Lambda functions with Node.js, DynamoDB, SQS, RDS Aurora and automated deployment with Serverless Framework.

Managing the customer database by creating and maintaining SQL enrollment procedures, calculating grades and editing students.

Systems Analyst at UniJÁ June 2018 — November 2018

Worked to build virtual classrooms for the institution's new course modalities (blended and online learning) using LMS Moodle to manage the courses. Automated the creation of new classes in future semesters, which used to be created manually, using Moodle's native APIs and Python for requests and reading data.

Trainee Analyst at Centro Universitário de Jaguariúna June 2015 — May 2018

Intern at Centro Universitário de Jaguariúna February 2014 — May 2015