Daniel **Boll**

Software Engineer · Software Architect · Developer

Cascavel, PR, Brazil

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Experience

Full Stack Engineer - Senior
Cascavel, Paraná, Brazil

Smart BR Soluções Tecnológicas · Full-time · Remote — Mar 2024 - Present

Focusing on search optimization and infrastructure improvements, I'm currently developing a new Elasticsearch index integrated with Apache NiFi, which enables real-time updates based on database changes. Additionally, I'm leading the API migration from Java 8 and Java 11 to Java 22, and planning our infrastructure shift from Docker Swarm to Kubernetes to support scalability and align with the company's evolving standards.

Technical Lead
Cascavel, Paraná, Brazil

Smart BR Soluções Tecnológicas · Full-time · Hybrid — Sep 2023 - Mar 2024

As Technical Lead, I directed the strategy for integrating a new marketplace into our e-commerce system, ensuring that the technical approach aligned with business goals and managed the complex ERP and database requirements. I also facilitated knowledge transfer sessions, guiding the team through ERP dependencies to establish a clear, actionable roadmap for implementation.

Core Team Member - Open Source
Vancouver, British Columbia, Canada

ExpressoTS · Freelance · Remote — Mar 2023 - Feb 2024

In my role with ExpressoTS, a TypeScript framework within the Node.js ecosystem, I enhanced the command-line interface (CLI) to improve functionality and developer experience and used the Node Addon API with C++ to create native modules. This position provided valuable experience in asynchronous teamwork, allowing me to effectively collaborate across time zones within a core open-source team.

Full Stack Engineer - Mid-Level
Cascavel, Paraná, Brazil

Smart BR Soluções Tecnológicas · Full-time · Hybrid — Feb 2023 - Sep 2023

I led a phased migration of our front end from Next.js 11 to Next.js 13, implementing Nginx for module-based transitions to ensure smooth updates. I also established CI/CD pipelines with Docker, Docker Swarm, and GitHub Actions, achieving zero-downtime deployments. Additionally, I built a standardized Design System using Shadcn UI, which helped maintain consistency and streamlined front-end development across projects.

Full Stack Engineer - Junior
Cascavel, Paraná, Brazil

Smart BR Soluções Tecnológicas · Part-time — Jun 2022 - Feb 2023

In this role, I optimized the build process within a micro-frontends setup to make development more efficient, and I contributed to setting up CI/CD pipelines, which simplified testing and deployment. I also developed and maintained front-end applications, which enhanced the overall experience for Vitaverse users.

Full Stack Developer
Cascavel, Paraná, Brazil

Loupen Tecnologia · Internship — Jul 2021 - May 2022

During my internship, I developed custom applications and serverless back-end functions for Freshworks platforms using ReactJS and Node.js. I helped enhance customer service workflows, contributing to improved team efficiency and smoother data migrations, and gained valuable expertise in integrating SaaS platforms within the Freshworks ecosystem.

Projects

ScyllaDB JavaScript Driver (Rust)
daniel-boll/scylla-javascript-driver

Developer — Present

Developed an open-source ScyllaDB JavaScript driver using Rust, which integrates with the Node API to enable seamless interaction with ScyllaDB. This project aims to provide efficient and robust database connectivity for JavaScript applications.

Skills

Languages	**Rust**, **TypeScript**, **C++**, **Java**, Python, Golang
Spoken Languages	**Portuguese**, **English**
Skills	**Docker**, **Docker Swarm**, **Linux**, **SQL**, **Nginx**, **NiFi**, **ScyllaDB**, Kubernetes, CI/CD, Kafka, Cassandra, MongoDB, Elasticsearch, Pulumi, Terraform

Education

Western Paraná State University (UNIOESTE)   **Cascavel, PR, Brazil**

B.S. in Computer Science   2019 - 2024

- Led a functional programming study group for three years, tackling advanced algorithmic challenges and deepening expertise in functional concepts.
- Participated in the PET program for three years, contributing to research, teaching, and university outreach projects.
- Conducted a scientific research project on Predictive Species Distribution Modeling, enhancing algorithm performance using parallelization in C++.
- Developed an educational compiler tool in Rust for my thesis, translating TAC-based intermediate representation to MIPS assembly, supporting virtual machine interpretation.

Federal Institute - Paraná (IFPR)   **Cascavel, PR, Brazil**

High School Integrated with Technology   2015 - 2018

- Began programming in 2015 with Java 8, gaining foundational skills that paved the way for further learning.
- Expanded knowledge in scripting with Bash and JavaScript, using these skills to develop a thesis project in 2018.
- Created a unified public healthcare platform prototype as part of the thesis, which anticipated concepts later seen in the government's ConecteSUS initiative.

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