

Richard Dias Alves

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SUMMARY

Computer Science student at Inteli with a focus on backend development and infrastructure. Hands-on experience with fullstack and embedded projects through real-world deliveries to companies like Google, Suzano, and the University of São Paulo School of Medicine.

EDUCATION

Inteli — Institute of Technology and Leadership

São Paulo, Brazil

B.Sc. in Computer Science

Feb. 2025 – Dec. 2028

- 100% project-based methodology — every quarter we deliver real projects to partner companies and institutions
- Projects delivered for: Google, FMUSP, Atvos, TIC Trens, Suzano, and Banco PAN

PROJECTS

Credit Optimization — Banco PAN/BTG Pactual

Apr. 2026 – Present

- Developing a linear optimization model to determine pre-approved credit card limits, maximizing expected return subject to risk and repayment capacity constraints
- Implementing the solution in Python using linear programming, applying operations research to real customer data

Ultimate Rust (urust.org) | *personal project*

Dec. 2025 – Present

- Building a multilingual educational platform for learning Rust, with free content and subscription-based exercises
- Backend built with Axum and PostgreSQL, featuring JWT authentication, 6-digit email verification, Argon2id password hashing, and a scalable architecture
- Full infrastructure setup: own VPS, mail server with SPF, DKIM and DMARC, and CDN via Cloudflare

IoT Access Control System — TIC Trens

Oct. 2025 – Dec. 2025

- Built a security and access control system for restricted areas using IoT, in partnership with TIC Trens
- Developed firmware in C++ for embedded devices and a backend with Node.js and PostgreSQL

Wound Monitoring Dashboard — FMUSP

Apr. 2025 – Jun. 2025

- Built a dashboard for healthcare workers to track foot wounds in diabetic patients, in partnership with the University of São Paulo School of Medicine
- Developed the frontend with HTML5, CSS3 and JavaScript, and a RESTful backend with Node.js and PostgreSQL

TECHNICAL SKILLS

Languages: Rust, C, C++, Java, Python, JavaScript, TypeScript, SQL

Frameworks: Axum, Node.js, Vue, VitePress

Tools: Git, PostgreSQL, Valkey (Redis), Cloudflare, Linux

LANGUAGES

Portuguese: Native

English: Advanced