

# Juan Castillo

## Software Developer

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## Profile

Software developer with frontend and backend experience in production environments. Assigns tasks, reviews and approves pull requests, oversees production deployments, and takes part in client meetings to define scope, technical feasibility, and timelines. Works daily with TypeScript, React, and .NET, and on microservices in Go and Quarkus.

## Professional experience

### EduPan S.A.

Mar 2025 – Present

#### Software Developer

- Assigns tasks to a team of developers, reviews and approves pull requests, and oversees production deployments.
- Takes part in client meetings for requirements gathering, technical alignment, code-level feasibility assessment, and delivery-timeline definition.
- Led the refactor of a production Next.js application, migrating it to a Turborepo monorepo and contributing to optimizations that reduced cloud infrastructure cost.
- Backend development in microservices with Go (gRPC), Java (Quarkus), and C#/.NET, including REST API integration and consumption.
- Contributes to a microfrontend platform built on Nx and Module Federation (14 remotes across two shells) against a .NET 8 clean-architecture API with EF Core and SQL Server.

### EduPan S.A.

Jan 2025 – Mar 2025

#### Junior Web Developer (Intern)

- Assisted in building ETL scripts in Python for data transformation and preparation tasks.
- Built internal dashboards using Apache Superset for data visualization.
- Contributed to the development of an internal API with FastAPI.
- Took part in QA and service-validation activities, as well as technical and functional documentation.

## Projects

**corebank** • [corebank.juank.tech](https://corebank.juank.tech) • Go, TigerBeetle, PostgreSQL, React

Online banking on a double-entry ledger. Overdraft is rejected by the financial database, not by application code: there is no balance column anywhere in the schema.

**lokiflow** • NestJS, TypeORM, PostgreSQL, Next.js, Socket.io

Restaurant operations with the server running inside the venue. Order and payment idempotency asserted by integration tests against a real PostgreSQL.

**mundial-2026-ml** • Python, scikit-learn, Dixon-Coles, Monte Carlo

49,500 fixtures, walk-forward feature construction and an eight-year expanding-window backtest: 59.96 % accuracy and 0.172 RPS across 7,797 unseen matches.

## Certifications and credentials

**AWS Academy Graduate – Cloud Developing (Training Badge)**

2025

Amazon Web Services Training and Certification • [Verify on Credly](#)

**AWS Academy Graduate – Cloud Foundations (Training Badge)**

Dec 30, 2024

Amazon Web Services Training and Certification • [Verify on Credly](#)

**Samsung Innovation Campus – Python and Artificial Intelligence**

2025

Samsung & FUNDESTEAM • 200-hour technical training program in Python and Artificial Intelligence.

## Education

**Bachelor's in Management Information Systems Engineering**

Mar 2024 – Jun 2028

Universidad Tecnológica de Panamá

**Technical Certificate in Web Development (Front End & Back End)**

Sep 2024 – Mar 2025

Universidad Católica Santa María La Antigua

## Skills

**Languages:** Python, JavaScript, TypeScript, Java, C#, Go

**Frontend:** React, Next.js, HTML, CSS

**Backend:** Node.js, .NET, Quarkus, FastAPI, gRPC, REST

**Databases:** PostgreSQL, SQL Server, MySQL

**Cloud & DevOps:** AWS (Cloud Foundations & Cloud Developing), GCP, Docker, Git, GitHub

**Tools:** Nx, Turborepo, Module Federation, Apache Superset

**Other:** pull-request review and approval, client coordination, service QA, technical documentation

**Languages:** Spanish native • English intermediate (technical reading and professional communication)

## Achievements

- 2nd place worldwide – RoboCupJunior 2023, RescueLine SuperTeam category, alongside the team from Japan (competed in France), after winning the Panamanian national.
- 1st place – STEAM Robotics Olympics 2019 (WRO Regular B, Hungary) and 2017, representing Panama.