

Davi Duarte

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Education

B.Sc. in Computer Science — Inteli (Jan 2025 – Dec 2028)

Instituto de Liderança e Tecnologia - Inteli

Scholarship from Telles Foundation. Led 10+ projects as Tech Lead, coordinating teams and architecture decisions

Languages

English (C1), Portuguese (Native)

Skills

Programming Languages: Java, TypeScript, JavaScript, Python

Data: PostgreSQL, MongoDB, Redis, DynamoDB, Data Analytics, Pandas

Cloud & DevOps: AWS (Lambda, SQS, SNS, SES, S3), Docker, Kubernetes, Terraform

Backend & Systems: Spring, NestJS, Prisma, Serverless, Microservices, Monoliths

Architecture: Distributed Systems, Event-Driven Design, DDD, Clean Architecture

Other: Linux, Git, WebSockets, Observability (Grafana/InfluxDB)

Experience

Summer in Technology — Morgan Stanley (Jan 2026)

Tech: Java, Spring Boot, REST APIs, Multithreading, Streaming (StAX/SAX), Jenkins

- Designed a secure REST API for granular, permission-based, audit-logged access to the bank's trading files, enabling Excel/VBA automation for business users. Delivered in 2 weeks the 5-week goal.
- Solved an XML to CSV conversion problem open since 2020 by designing a schema-agnostic processing engine that handles arbitrary XML structures without prior XSD validation, using chunk-based streaming and parallel processing.
- Reduced CPU usage from 95% to <10% and memory consumption from 10GB+ to <900MB, enabling the tool to process files the previous version could never convert.

Software Developer — Atomize (Jun 2025 – Current)

Tech: TypeScript, AWS Lambda, SQS/SNS, DynamoDB, Serverless

- Scaled real-time communication platform to 1,000+ concurrent sessions with serverless architecture.
- Built distributed async pipeline (SQS/SNS) processing 10,000+ events/day, reducing API latency by 25%.
- Standardized architecture across 15+ services using DDD + Clean Architecture, improving deployment speed by 30% and reducing onboarding complexity.

Software Developer — Jungle (Jan 2024 – Dec 2024)

Tech: Java, TypeScript, AWS, MongoDB, Webhooks, Payment-Services

- Designed and implemented a high-throughput PIX payment system with <2s confirmation latency, improving transaction reliability for millions of in-game payments.
- Built an e-mail platform using AWS SES, cutting marketing infrastructure costs by \$700/month.
- Developed real-time features for the Discord Community increasing player engagement by +270%.
- Created Web3 REST APIs (Java/TS/JS) integrating on-chain assets, wallets and marketplaces.

Software Developer — MineTree (Jan 2022 – Dec 2022)

Tech: Java, Redis, SQL, Linux, Grafana, InfluxDB

- Refactored large-scale legacy systems, reducing response times by 60% under production load.
- Built observability stack to track economy growth, marketing and performance metrics.
- Built scalable architecture with Java + Redis for high-concurrency multiplayer workloads.

Projects

Technical Teacher – Inteli Consulting Society (2026): Conceptualized and led the program, training 12 students in DSA and System Design using a hands-on methodology. Designed study plans tailored for success in Big Tech.

aceito.fiado (May 2026): Won 1st place + R\$20k at Feira Preta Hackathon. Engineered a credit-scoring solution for underserved MEIs by analyzing alternative financial data to bypass biased traditional models.

Technical Advisor - Inteli Junior - Junior Enterprise (2025 - 2026): Served as a technical advisor due to my experience, to support project teams, provide technical guidance and give training sessions to members.

TermoSense - IoT Temperature Monitoring for Copel (Inteli 2025): Designed scalable serverless IoT pipeline (IoT Core → Lambda → DynamoDB → SQS) for monitoring 500k+ power transformers, enabling real-time telemetry and anomaly detection. Chosen as the best project of the class.

NextPlugins – OpenSource (2020 – 2022): Maintained 70+ OSS repos powering 1,200 servers and 15,000+ players worldwide, becoming a core ecosystem in the Brazilian Minecraft community.