Pedro Duarte

Software Architect — Cloud Architect — Staff Software Engineer

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🪪 Profile

I design and implement cloud-native solutions. In between I:

- Connect business goals to technical implementations, and vice versa
- Work together with the team to make it happen
- Learn from users, colleagues, data, production, and the web

With 13+ years on this journey, now I combine all lessons to solve IT problems by seeing them from more angles.

🧠 Skills, Tools, and Frameworks

Languages: English (Fluent), Portuguese (Native)

Programming Languages: Java, JavaScript, TypeScript, Python, HTML/CSS, SQL, C++, Dart, Shell script

Databases & Warehouses: PostgreSQL, MySQL, DynamoDB, Oracle, SQL Server, Redis, Firestore, MongoDB, Cosmos DB, SQLite

BI & Analytics: Azure Synapse Analytics, Apache Spark, Delta Lake

Cloud: AWS, Azure, GCP, Firebase, S3, ECS, EC2, Lambda, IAM, and many more.

Frameworks & libraries: React, Node.js, Next.js, Express, Spring, Flask, Bottle, Flutter, Micronaut, GraphQL, and many more.

Tools: Docker, Terraform, Bicep, Apache Spark, Delta Lake, Webpack, Gradle, npm, Yarn, Maven, Visual Studio Code, IntelliJ IDEA, Jira, Confluence, Trello, Git, Jenkins, Azure DevOps, CircleCI, GitHub Copilot, ChatGPT, Claude, Keycloak, JUnit, Cucumber, Selenium, ELK

🎓 Education

Master's Research in Computer Science (2014 - 2017) — Universidade Federal de Uberlândia — Conducted research and published paper in intelligent transport systems

Bachelor's Degree in Computer Science (2009 - 2013) — Universidade Federal de Uberlândia

📖 Published Papers & Certifications

"An Architecture for Monitoring and Improving Public Transportation Systems" — *IEEE (AINA)*, 2016 — DOI: 10.1109/AINA.2016.39

ITIL Foundations, 2013

Certified Linux Administrator (LPIC-1), 2013

Oracle Certified Professional, Java SE 6 Programmer, 2012

💼 Professional Experience

Software Architect – *Entrustody* ↗   *Remote, US-based company* – 2023 - Present

Lead development team in creating fintech solutions, collaborating with C-level executives on business strategy and technology alignment.

Major Project: Business Intelligence Application for RIAs and Advisors

- Developed comprehensive ETL pipeline using Azure technologies
- Implemented Medallion architecture and efficient Delta load techniques
- Created daily-updated reports on operational efficiency metrics

Key Achievements:

- Designed and implemented scalable cloud-based solutions
- Optimized data processing and analytics capabilities

- Enhanced system modularity and scalability through microservices architecture
- Expanded expertise in Azure cloud ecosystem and data engineering
- Gained valuable experience working with US-based startup

Skills: Scrum, Python, Azure (Synapse Analytics, ADLS, Key Vault, Function App), Apache Spark, Delta Lake, PostgreSQL, Node.js, TypeScript, Docker, Next.js

Co-founder & Software Architect – *Exacode* ⬈   *Uberlândia, Brazil* – 2018 - 2022

Led all aspects of IT consultancy, including architecture, development, project management, sales, and operations.

Key Projects:

- **E-commerce Platform:** Built custom application for driver's license deals using Java, Node.js, Express, Micronaut, AWS services
- **Health Tracking Mobile App:** Developed app for bipolar disorder patients using Flutter, Firebase, GCP services
- **Internal Business Application:** Created system for a multinational's negotiations with farmers using Java, Docker, PostgreSQL, React

Additional Achievements:

- Gained extensive experience in cloud architecture and serverless technologies
- Expanded skillset to include business operations and client relations
- Enhanced problem-solving skills in diverse business contexts

Skills: Scrum, Java, Node.js, Express, Micronaut, React, Flutter, AWS (Lambda, ECS, DynamoDB, Aurora Serverless, SES, SQS, SNS), GCP, Firebase, Terraform, Docker, PostgreSQL, Redis, GraphicsMagick, ELK

Software Architect – *Yandeh* ⬈   *Uberlândia, Brazil* – 2018 - 2020

Led development teams in building an ecosystem for the supply chain industry, focusing on solutions for manufacturers, suppliers, and retailers.

Key Projects & Achievements:

- **SSO Solution:** Configured, customized, and maintained Keycloak for secure authentication
- **B2B Platform:** Developed application for admin-level users to configure complex sales campaigns
- **Products Catalog:** Contributed to centralized system for SKU management across retailers and wholesalers
- Led architecture specification, development, and CI/CD implementation for core services

Professional Growth:

- Advanced to architect role, leading and mentoring technical teams
- Gained expertise in complex system design and cloud architecture
- Expanded knowledge in microservices and serverless architectures

Skills: Scrum, AWS (Lambda, S3, EC2, ECS, IAM, DynamoDB), Terraform, Docker, Keycloak, New Relic, Python, Java, Node.js, TypeScript, PostgreSQL, Bottle, Shell script, Zappa, OAuth2, OpenID Connect, ELK

Software Specialist – *Hub Fintech* ⬈   *Uberlândia, Brazil* – 2017 - 2018

Developed and enhanced financial systems, focusing on credit card transactions processing and digital banking solutions.

Key Accomplishments:

- Contributed to core components of a credit card authorization and processing system

- Developed account management modules for a digital bank client
- Implemented ISO 8583 standard for financial transaction messaging
- Integrated systems with payment processors, banks, and fraud detection services

Professional Growth:

- Expanded expertise in financial technology sector
- Gained deep understanding of payment systems and related standards

Skills: Scrum, Java, RabbitMQ, Angular, Shell script, Jenkins, MySQL, JUnit

Software Developer – *Algar Telecom* ⧉   *Uberlândia, Brazil* – 2012 - 2017

Progressed from junior to senior developer, working on diverse projects and continuously expanding technical expertise.

Key Achievements:

- Engineered an inter-system communication service using Java, Spring and Angular
- Enhanced and customized modules for a complex billing system
- Led a bus location tracking project using Raspberry Pi, managing a small team

Project Portfolio:

- **Internal:** Field technician assistance app, workflow management system, CRM platform
- **Customer-facing:** Mobile application backend, number portability system

Skills: Java, JUnit, Angular, Spring, PostgreSQL, Oracle, Wildfly, JBoss, Tomcat, XSLT, OSGi, Memcached, Maven, REST, SOA, WSO2, Hazelcast, Docker, Raspberry Pi

Software Development Intern – *Kyros Tecnologia* ⧉   *Uberlândia, Brazil* – 2011 - 2012

Worked on an outsourced team for Algar Telecom, contributing to the Comverse Kenan FX billing system.

Key Contributions:

- Developed new modules for the billing system
- Debugged existing functionality to fix bugs and improve system performance
- Created data extraction reports for business intelligence

Professional Growth:

- Gained hands-on experience with enterprise-level systems
- Developed skills in database management and scripting
- Learned to work effectively in an outsourced team environment

Skills: Oracle, SQL, Shell script