

Pedro Duarte

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Skills

Languages: Java, Python, JavaScript, TypeScript, Dart, C/C++, SQL.

Technologies & Tools: AWS, Azure, EC2, Lambda, DynamoDB, S3, SQS, ECS, Docker, Terraform, Spring, React, Next.js, Spark, Delta Lake, Keycloak.

Work Experience

Entrustody, Boston

Apr 2023 - Present

Software Architect

- Led end-to-end development of a scalable, multi-tenant ETL pipeline and BI solution, driving data-informed decisions for financial advisors.
- Reduced annual Azure cost by 60% through strategic service selection and identifying unused resources.
- Enhanced data security and compliance by migrating core legacy Azure infrastructure to a private network topology.
- Azure (Function App, ADLS, Synapse Analytics, Key Vault, Azure Monitor, Log Analytics, Container Apps, Entra External ID), TypeScript, Spark, Delta Lake, PostgreSQL, Docker, Terraform.

Exacode, Uberlândia

Jul 2020 - Mar 2023

Software Architect

- Reduced client's expenses by over 30%, by digitalizing their operations through building a serverless e-commerce app.
- Built a health tracking app, achieving 92% user retention, and 4.9-star app store rating.
- Developed business system for a Fortune 500 client, accelerating deal closure velocity by 40%.
- AWS (Lambda, ECS, EC2, DynamoDB, S3, Aurora Serverless, SQS, SNS, ELB, CloudFront, Route 53), GCP, Firebase, Java, Python, TypeScript, React, Flutter, Terraform.

Yandeh, Uberlândia

Sep 2018 - Jul 2020

Software Architect

- Streamlined cross-application user experience by implementing SSO solution using Keycloak.
- Optimized clients' sales operations by architecting a B2B platform for complex sales campaigns configuration.
- Improved the development team's feature delivery rate by fostering continuous delivery best practices.
- AWS (Lambda, S3, EC2, ECS, DynamoDB), Terraform, Docker, Keycloak, Java, Python, TypeScript, Node.js, React.

Hub Fintech, Uberlândia

Sep 2017 - Aug 2018

Senior Software Engineer

- Enhanced security and compliance of ISO 8583 payment processing platform by creating a fraud detection module.
- Facilitated fund transfers of a digital banking client by implementing an account linking feature.
- Java, RabbitMQ, Angular, MySQL, JUnit, Jenkins.

Algar Telecom, Uberlândia

Oct 2013 - Aug 2017

Senior Software Engineer

- Developed multiple core applications for OSS/BSS telecom systems, streamlining operations.
- Java, Spring, Angular, PostgreSQL, Oracle, Docker, REST, SOAP, Jenkins.

Kyros, Uberlândia

Jun 2011 - Sep 2012

Software Developer

- Contributed to new and existing custom modules of a complex billing system (Comverse ONE).
- Oracle, SQL, Python, Shell script.

Education

Universidade Federal de Uberlândia

2009 - 2013

B.S. in Computer Science

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Analysis of Algorithms, Operating Systems, Computer Networks, Data Mining, Image Processing.

Project Work

- **Research on Public Transportation Systems (2016):** Proposed and simulated a low cost inter-networking architecture and ontology for monitoring and improving public transportation systems. Used: MikroTik routers, OpenWrt, Docker, Veins.
- **EasyBus (2017):** Designed and led development of near real-time bus tracking system, integrating IoT devices for accurate ETAs and passenger counts. Used: Raspberry Pi, Pi Camera, Python, AWS.

Publications

- **“An Architecture for Monitoring and Improving Public Transportation Systems”** — IEEE (AINA), 2016 - <https://ieeexplore.ieee.org/document/7474181>.

Awards and Certificates

- **Teaching Assistant at Universidade Federal de Uberlândia:** Helped CS students to learn algorithms and data structures.
- Exam Certificate: ITIL® Foundation Certificate in IT Service Management (ITILF).
- Certified Linux Administrator (LPIC-1).
- Oracle Certified Professional, Java SE 6 Programmer (2012).