

Pedro H. S. Duarte

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Skills

Languages: Java, Python, JavaScript, TypeScript, SQL, Dart.

Technologies & Tools: Docker, Linux, Terraform, PostgreSQL, Spring, Micronaut, Flask, GraphQL, React, Spark, Keycloak.

Cloud: AWS (Lambda, DynamoDB, ECS/Fargate, VPC, IAM, S3, RDS/Aurora, SQS/SNS, CloudWatch, etc.), Azure (Function Apps, ADLS, Synapse Analytics, Entra, Container Apps, etc.), GCP, Firebase.

Fundamentals: Network & Web Security, OOD, DDD, REST, TDD, Continuous Delivery, Software Architecture, Observability.

Work Experience

Entrustody, Uberlândia (*remote, US-based company*)

Apr 2023 - Present

Software Architect

- Led end-to-end development of a scalable, multi-tenant data pipeline and business insights solution, driving data-informed decisions for investment 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.
- TypeScript, Azure, AWS, Spark, Delta Lake, PostgreSQL, Docker, Terraform, GraphQL, Prisma ORM, Selenium, Log Analytics, Azure Monitor.

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 stores rating.
- Developed business system for a F500 client, accelerating deal closure velocity by 40%.
- Java, TypeScript, Python, Node.js, AWS, GCP, Firebase, Spring, Lambda, PostgreSQL, Firestore, Terraform, React, Tailwind, Flutter, Redis, Selenium, CloudWatch, Crashlytics.

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.
- Python, TypeScript, Java, Node.js, AWS, Terraform, Docker, Keycloak, Lambda, Flask, React, CircleCI, New Relic, OpenID, OAuth, Kibana, Selenium.

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, JavaScript, Angular, RabbitMQ, MySQL, JUnit, Hystrix, Jenkins.

Algar Telecom, Uberlândia

Oct 2013 - Aug 2017

Senior Software Engineer

- Developed multiple core applications for OSS/BSS telecom systems, streamlining operations.
- Java, JavaScript, Spring, JavaEE, WildFly, JBoss, Tomcat, Angular, PostgreSQL, Docker, REST, SOAP, Hystrix, Hazelcast, Jenkins.

Kyros, Uberlândia

Jun 2011 - Sep 2012

Software Developer

- Contributed to new and existing custom modules of a complex billing system (Comverse ONE).
- Python, PL/SQL, 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, Cryptography, 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, Shell script, Docker, Veins.
- **EasyBus (2016):** Designed and developed near real-time bus tracking system, integrating IoT devices for accurate ETAs and passenger counts. Used: Raspberry Pi, Pi Camera, Python, AWS services.

Publications

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

Awards and Certificates

- AWS Certified Solutions Architect - Associate (SAA-C03) (Dec 2024)
- Exam Certificate: ITIL® Foundation Certificate in IT Service Management (ITILF) (2013).
- Certified Linux Administrator (LPIC-1) (2013).
- Oracle Certified Professional, Java SE 6 Programmer (2012).
- Teaching Assistant at Universidade Federal de Uberlândia: Helped CS students to learn algorithms and data structures (2010).