

Eduardo Fernandes Mito de Oliveira dos Santos

Santa Catarina - Brazil | mioto@mioto.com.br | +55 (21) 98390-8086
GitHub: [eduardomioto](https://github.com/eduardomioto) | Site: eduardomioto.com | LinkedIn: [/eduardomioto](https://www.linkedin.com/in/eduardomioto)

QUALIFICATIONS

+15 years working with software architecture, software engineering, and applied research, as well as 4+ years as a Leader of Leaders.

Main Competencies: team leadership, people management, solutions architecture, software architecture, performance, cloud computing, distributed computing and agile.

EDUCATION

MSc. in Computer Engineering and Systems, UFRJ, Rio de Janeiro/Brazil	Apr/2020	Grade: 9.6/10
MBA in Software Engineering, UFRJ, Rio de Janeiro/Brazil	Apr/2016	Grade: 9.2/10
Technologist Degree in IT Management, UNISUL, Santa Catarina/Brazil	Dec/2014	Grade: 8.8/10

WES Verified International Academic Qualifications

Certifications

- AWS Solutions Architect - Associate
- Professional Scrum Product Owner I (PSPO I)
- Professional Scrum Master I (PSM I)
- ITIL Foundation
- ITSM based on ISO/IEC 20000
- COBIT 5 Foundation

WORK EXPERIENCE

Engineering Manager - BeatStars Jul.2022/Present

(Remote) Austin - TX (USA)

- Leader of leaders
- Managing a team composed of 26 people (14 in Brazil, 10 in Portugal, 2 in Canada), being 8 direct reports and 18 indirect reports
- On the given headcount, 4 were leaders and 22 were individual contributors, divided into Mobile, Frontend, Backend and QA.
- Responsible for setting and achieving the team's goals.
- Responsible to execute 1:1, and manage careers
- Providing thought leadership, technical direction, and mentoring for developers.
- Determining project requirements and developing work schedules for the team.
- Liaising with team members, management, and clients to ensure projects are completed to the standard
- Ensuring best practices
- Identifying risks and forming contingency plans as soon as possible.
- Analyzing existing operations and scheduling training sessions and meetings to discuss improvements.
- Performing troubleshooting as required.
- Motivating staff and creating a space where they can ask questions and voice their concerns.
- Being transparent with the team about challenges, failures, and successes.
- Human resource hiring and termination decision.

Lead Software Architect - Philips Apr.2021/Jul.2022

(Remote) Blumenau - SC (Brazil)

- Leader of leaders
 - Lead a team composed of 15 members (10 located in Brazil and 5 in India)
 - On the given headcount, 4 of them are Leaders and 11 are individual contributors.
 - Responsible to execute 1:1, with or without our direct senior manager
 - Participate in the creation of architectures consistent with project roadmaps, platform strategies, governance policy, and standards.
 - Defines and develops the software architecture and the design of applications
 - Proposing, validating, and/or documenting Architectural Decisions based on functional and non-functional requirements according to the established architectural and design guidelines
 - Advise projects on technology and architecture trends they need for their decision-making and external engagements
 - Considers technical boundary conditions (e.g. non-functional requirements) as well as economic aspects;
 - Supports make-or-buy decisions and identifies off-the-shelf components that can be used;
 - Works in an Agile Team and supports other team members in their learning journey;
 - Follows technical developments and technological trends regarding software development.
 - Follow industry-standard application development techniques, patterns, and practices.
- Protocols: HTTPS w/ REST or SOAP, TCP w/ MLLP (HL7), WSS
Healthcare: HL7 v2, FHIR, CDA, IHE (ATNA, PIX, PDQ)
Industry Compliance: EU MDR, GDPR, LGPD, ISO-13485

Senior Software Architect - Philips Apr.2019/Apr.2021

(Remote) Blumenau - SC (Brazil)

- Defining the scope and challenges with partners and identifying key issues
- Delivering a reference architecture, creating well-defined system options & scenarios choosing the optimal architecture
- Orchestrate roadmaps as well as establishing control points
- Ensuring a solid, up-to-date and usable documentation of the architecture and its implementation
- Driving an accepted implementation of architecture, incl. validation and verification
- Establishing architecture lifecycle management and teaming-up for impact
- Acting within the entire context of the business, organization, roadmaps, external world, overall ecosystem

- Seeking for convergence, bringing together prior art and internal and external trends
- Guide and support development teams in a global multi-location environment, mostly located in Brazil, USA and India
- Covering multiple domains, distributed systems and a large sort of technology areas
- Work integrated with pre and post-sales team to deliver the best solution and guidance to customers, mostly located in Brazil, Mexico, Chile, Germany and Australia
- On SAFe, execute the RTE position, facilitating and coordinating the PI Plannings

SME: Software Architecture, Agile, AWS, Cloud Foundry, Java, Performance, Profiling, Linux

Project Management Tool: Azure Devops

Agile: SAFe, Scrum + Kanban

BackEnd: Java 1.8, Gradle, Weld, Guice, Microprofile, JPA, Hibernate, Sonar, Apache Camel

FrontEnd: React

Infrastructure: AWS, Cloud Foundry, HSDP

Database: MongoDB, Oracle

Versioning: Git

API Doc: Swagger

Messaging: RabbitMQ

Profiling: JConsole and Java Mission Critical

Performance: JMeter, Influx DB, Grafana Prometheus, Micrometer, JMX

Containers : Docker, Docker-Compose

Protocols: HTTPS w/ REST or SOAP, TCP w/ MLLP (HL7)

Healthcare: HL7 v2, FHIR, CDA, IHE (ATNA, PIX, PDQ)

Industry Compliance: EU MDR, GDPR , LGPD, ISO-13485

Head of Physical Payments / Manager - Zoop Payments Aug.2018/Mar.2019

(Hybrid) Rio de Janeiro - RJ (Brazil)

- Leader of leaders
- Managing 10 headcounts, being 3 leaders and 7 individual contributors.
- Responsible to execute 1:1
- Managing the team's performance, individual performance, and career plan
- Guide, coach, and mentor software development engineers
- Provide project management and technical leadership for every aspect of the software.
- Prepare lifecycle for different projects inclusive of research, development, design, evaluation, and testing along with delivery to product management.
- Supervise architecture and lead efforts to develop a technical roadmap for all projects.
- Establish and stimulate software development standards and processes along with best practices for the delivery of scalable and high-quality software.
- Perform closely with Engineers, Developers, and Product Management throughout the organization to influence product development assisting or improving products.
- Develop relations with existing and prospective internal customers to interpret all individual requirements.
- Learn and display how products would add value to the respective business.
- Ensuring top-quality design reviews to attain business goals.
- Supervise resource allocation to assure the attainment of apt business and personnel development goals.
- Involve in strategic plans to accomplish technical as well as business with leadership chain, team and with customers.
- Manage and execute software development projects from beginning to finish.
- Evaluate projects, develop and update schedules and supervise project status.
- Collaborate effectively with all team members as well as hold regular team meetings.
- Align the strategy with CTO and other Engineering Heads
- Manage the technical products roadmap

Software Architect / Lead Software Architect - Zoop Payments Sep.2017/Aug.2018

(Hybrid) Rio de Janeiro - RJ (Brazil)

- Deliver the fastest and most reliable payment transactions ever made.
- Leader of Leaders
- Managing 9 headcounts (5 Architects and 4 Infrastructure Analysts)
- Definition of processes, architecture governance, and systems mapping
- Responsible to execute 1:1, and managing the team's performance, individual performance, and career plan
- Definition and planning of target architecture and roadmap in alignment with business strategy;
- Definition of principles and standards for solutions;
- Ensure solutions performance, scalability, reuse, availability, and security;
- Clarity regarding the standardized technologies to be adopted;
- A clear view of the map of applications and their potential gaps;
- Build a long-term vision in alignment with business strategy;
- Provide strategic technology and innovation strategy;
- Releases Launch cycle management
- Manage technical interdependence between programs;
- Start, maintain and disseminate architecture maps
- Supervise the automated tests writing process, working together with the team for quality assurance;

SME: Software Architecture, Java, Maven, Spring Framework, Performance Improvements, Profiling, SonarQube

Project Management Tool: Jira

BackEnd Java: Java 1.8, Spring Boot, Undertow, Maven, Gradle, Jacoco, Sonar

Infrastructure: AWS

AWS: SNS, SQS, API Gateway, Route 53, Load Balancers (NLB, ELB, ALB), S3

Serverless: Lambda (with SAM)

Database: MongoDB (EC2), MySQL (RDS), DynamoDB

Versioning: Git

API Documentation: Swagger

Monitoring and Profiling: New Relic APM, JConsole, and Java Mission Critical

Containers or Virtualization: Docker and Vagrant

Security: WAF

Protocols: HTTPS, HTTPs w/ Protocol-Buffers, TCP w/ ISO-8583, WSS (Secure WebSocket)

Metrics: New Relic Insights

Payments: EMV Kernel, ISO-8583

Industry Compliance: PCI-DSS

**Full-Time Master's Degree Student - Universidade Federal do Rio de Janeiro
March.2017/Sep.2017**

(Presential) Rio de Janeiro - RJ (Brazil)

Capes Grade: 7

Major/Research Subject: Software Engineering - Distributed Systems

Research: Multicriteria Criticality Suggestion for Established Microservices Oriented Architectures

**Software Engineer - General Electric
May.2015/March.2017**

(Presential) Rio de Janeiro - RJ (Brazil)

Working to Healthcare Business on Health Cloud project, being a part of a ecosystem composed by 25 teams allocated in 5 countries (USA, Brazil, India, France and Hungary), oriented by Agile mindset and organized by SAFe framework and Scrum, we reach the maturity on Continuous Integration and Continuous Delivery, based on microservices approach and responsibility attribution.

During the Health Cloud project I was able to work on all team's roles, as Front End, QA and Back End Engineer as also Scrum Master during a time needed. During the project, several contributions were made to performance improvement, process improvement, promotion of higher quality on deliveries and use of the most updated technologies to web applications.

Being part of the team selected to promote the business requirements gathering on local potential consumers, we were able to create a good environment for mutual growing, elucidating and clarifying pain points, network infrastructure bottlenecks, cost reduction and proposing solutions based on GE's expertise.

SME: Java, Maven, Spring Framework, Performance Improvements, Profiling, Sonar

BackEnd: Java 1.8, Node JS, Spring Boot, Jersey, Maven, Spring Security, Mockito, Jacoco, Sonar

FrontEnd: AngularJS, Bootstrap, Mocha, Karma, Chai, Istanbul, Sonar, Grunt, NPM

Infrastructure: Pivotal Cloud Foundry, Predix, AWS

Database: Couchbase, Postgres (NoSQL)

Versioning: Perforce, Git

QA: Selenium, Serenity, JBehave

Containers: Docker and Docker-Compose

Documentation: Swagger

Monitoring and Profiling: New Relic and JProfiler

Healthcare: FHIR, DICOM, XDS, PIX, PDQ, CDA, HL7, PACS, MPI

Industry Compliance:

- HIPAA

- FDA (on Training for Medical Device Security on GE Healthcare)

**Senior System Analyst - Accenture/OI Telecommunications
Aug.2012/May.2015**

(Presential) Rio de Janeiro - RJ (Brazil)

Business requirements gathering and analysis

Request for Proposal Elaboration and Function Point Analysis

Leading demands involve Offshore Team (Manila / Philippines) ensuring time and quality of deliveries.

Technical and Functional specifications, Data Modeling

Work with challenging deadlines and high level of complexity, working integrated with several fronts supported via web services.

Reports weekly and eventually daily on status and monitoring of demands for managers.

SME: Java, Spring Framework, SQL, JQuery, WSDL/XSD

-Core Projects

Java 1.5, Spring Portlet (JSR 286) for Vignette Portal 8, JQuery
XSD and WSDL validation, Webservices creation (Axis 2 and CXF), server and clients.
Oracle 9 and 10g, Continuous Integration with Maven, Hudson and Nexus, Websphere server

-No structural Projects

Java 1.5 or 1.6, JBoss or Tomcat server, JSTL, Use of Oracle databases, MySQL or SQL Server
SLF4J, Maven, Hudson, Nexus and Sonar. Use of PDCA cycle for continuous improvement

-Maintenance Of Legacy Systems: Java 1.4 or 1.5, Ant, Struts and JSP / Servlet, Oracle, JavaScript (DOM)

System Analyst - Provider-IT/Bradesco Insurances	Mar.2012/Aug.2012
System Analyst - Rightway/BrasilCAP	Nov.2011/Mar.2012
System Analyst - Central-IT/CETEM	Jul.2011/Oct.2011
System Analyst - Accenture/OI Telecommunications	Sep.2010/Jul.2011
System Analyst - Stefanini	Nov.2009/Sep.2010
System Analyst - Mito Informatics	Jan.2009 /Dec.2009
Technical Support - Rhealeza Consulting	Jul.2009/Nov.2009
Computing Instructor - M.O.R.E Project	Apr.2007/Jul.2009
Bioinformatics Intern - National Institute of Cancer	Set.2008/Jan.2009
Scientific Initiation - Fluminense Federal University	Aug.2007/Jan.2008
Administrative Assistant - Floresnet	Jan.2006/Dec.2006

Idioms

English - Fluent / Spanish – Intermediate / Portuguese – Native

Honors and Awards

GE - Above & Beyond (2016)

“Eduardo demonstrated many examples of collaboration in the best spirit of swarming by being available to help other colleagues in different areas of expertise. For this reason he was “nominated by the team” for being the team member with most “bouquet” recognition during 2016 retrospectives with a total of 25 mentions. He was also a reference for the team regarding domain knowledge in the Healthcare field.” - Eduard Bloom (Value Stream Manager)

Zoop - Magenta Mobile Selection (2018)

“Top Contributor selected by the Zoop investor, highlighting the most impactful deliveries and project conduction on 2018”

Philips Recognition (2021)

“Mito, thank you very much for your commitment and results regarding the architectural improvements journey! We’ve already improved a lot and together, we can continuously improve our solutions! Well done” Issued by Manager (Direct)

Philips Recognition 2021

“Mito deserves recognition for his dedication to helping address the critical issues. He and his team worked difficult hours in order to get the solution to deploy to Philips customers. Mito’s deep technical knowledge was invaluable during this difficult time. Mito embodies the Philips attribute of “Take ownership to deliver fast.” Philips is lucky to have Mito working with us!” Issued by Manager (different area)

Events Participations (Speaker)

23rd Iberoamerican Conference on Software Engineering (Curitiba/BR) - Nov/2020 (Audience: 400+ people online)
I International Conference on Information Systems and Software Tech. (Quito/EC)- Nov/2019 (Audience: 300+ people in person)
Zoop Payments case on AWSome Day (Rio de Janeiro/BR) - Set/2018 (Audience: 2000+ people in person)
Zoop Webinar - Aug/2018 (Audience: 100+ people online)

Publications

- Multicriteria Criticality Suggestion for Established Microservices Oriented Architectures
- A Survey on Microservices Criticality Attributes on Established Architectures [*Best Paper Award*]
- Introductory Process Proposal for Microservice’s Communication Technologies Selection
- Corporate Architecture with TOGAF for Strategic Improvement Based on the Introduction of Operational Knowledge Management
- Working in 2050: A view of how changes on the work will affect society
- The impact of Service Discovery on Distributed Fault Tolerant Architecture
- Alta Disponibilidade em Sistemas Distribuídos Baseados em Arquitetura Orientada a Microserviços
- Estudo de Caso da Aplicação de Metodologias Ágeis em Desenvolvimento de Software

More information can be found at <http://eduardomito.com/>