

Edson Duarte

Tech Lead, Data Scientist and Cloud Engineer

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Good data architecture is a living, breathing thing.

It's never finished.

Fundamentals of Data Engineering by Joe Reis and Matt Housley

Summary

Data Platform Engineer since 2023

Tech Lead since 2021

Data Engineer since 2018

Data Scientist since 2014

Software Engineer since 2007

Published 3 research papers since 2017

Certified Google Cloud Engineer since 2023

Tech Skills and Stacks

Certifications Google Cloud Digital Leader by Google (until 2026), Google Certified Associate Cloud Engineer by A Cloud Guru, IBM Quantum Achievement by IBM

Advanced Data Science (Python, scikit-learn, keras, tensorflow, numpy, scipy, bokeh), Data Engineering (ETL, ELT, Apache Airflow), Data Exploration (pandas, jupyter, Databricks, Apache Superset),

Intermediate Platform Engineering, Cloud Engineering (GCP, Pulumi, Terraform, Azure, AWS), GNU/Linux (Arch, Ubuntu), Microservices (Java, Python, Spring, Quarkus, Docker, Kubernetes), Stream and Batch (Apache Spark, Apache Pulsar, Dataflow), Databases (Relational, Documents and Time-series)

Experience

Professional

2023 – present **Lead Data Platform Engineer and Cloud Engineer**, *Venturus*, Campinas, São Paulo, Brazil

2018 – present **Data Scientist**, *Numerai*

- Participating in the main tournament using all 50 model slots.
- Achieved a ROI of 140% during 2021 and a ROI of 75% during 2020.

2021 – 2023 **Lead Data Scientist**, *Venturus*, Campinas, São Paulo, Brazil

Worked as Lead Data Scientist in a project for a Global Leader of the Payments sector in a Data Science solution and platform to enable insights on their operations.

2021 – 2022 **Data Science Chapter Lead**, *Venturus*, Campinas, São Paulo, Brazil, Worked as Chapter Lead of Data Science helping the company nurture the culture of knowledge sharing and continuous learning of everything related to Data Disciplines.

- 2019 – 2021 **Software Engineer**, *Venturus*, Campinas, São Paulo, Brazil
Worked as a Software Engineer on the development of a payment processing distributed system using the microservices architecture, while also contributing to the general architecture, the application of agile methodology and test planning and deployment.
- 2015 – 2019 **Mobile Developer Internship**, *Watermelon Tecnologia*, Campinas, São Paulo, Brazil
- Development in apps focused on learning, routing, delivery and video conferencing solutions.
- Using MVC and MVVC architectures, dependency injection, reactive programming and many platform APIs.
- Used tools like Rx, Room, Dagger, Retrofit, Alamofire, Realm, Twilio, Google Maps.

Academic

- 2017 – 2019 **Machine Learning Researcher**, *Universidade Estadual de Campinas (University of Campinas - UNICAMP)*, Campinas, São Paulo, Brazil
In this Bug Triage project we used NLP and ML techniques to help triage teams on selecting the proper tech teams for resolution of issue tickets.
Grant: Motorola Mobility, Instituto Eldorado and Funcamp (UNICAMP)
Advisors: Prof. Jacques Wainer (IC-UNICAMP) and Prof. Eduardo Valle (FEEC-UNICAMP)
- 2016 **Machine Learning Researcher**, *Universidade Estadual de Campinas (University of Campinas - UNICAMP)*, Campinas, São Paulo, Brazil
In this project we used NLP and ML techniques to help triage teams on the assesment of battery related problems on mobile devices.
Grant: Motorola Mobility, Instituto Eldorado and Funcamp (UNICAMP)
Advisors: Prof. Jacques Wainer (IC-UNICAMP), Prof. Eduardo Valle (FEEC-UNICAMP) and Prof. Siome Goldstein (IC-UNICAMP)
- 2014 – 2016 **Machine Learning Research**, *Universidade Estadual de Campinas (University of Campinas - UNICAMP)*, Campinas, São Paulo, Brazil
In this research we studied the application of Support Vector Machines using alternate formulations and methods of hyper-parameter optimization.
Advisor: Prof. Jacques Wainer (IC-UNICAMP)

Publications

- 2023 **An empirical study of learning-to-rank for spare parts consumption in the repair process**, *Expert Systems*
Co-author with Daniel de Haro Moraes and Lucas Leonardo Padula
<https://doi.org/10.22541/au.167303810.03231830/v1>
- 2022 **A Learning-to-Rank Approach for Spare Parts Consumption in the Repair Process**, *Springer, Cham*
Co-author with Daniel de Haro Moraes and Lucas Leonardo Padula
https://doi.org/10.1007/978-3-031-16474-3_50
- 2017 **Empirical comparison of cross-validation and internal metrics for tuning SVM hyperparameters**, *Pattern Recognition Letters*
Co-author with Prof. Jacques Wainer (IC-UNICAMP)
<https://doi.org/10.1016/j.patrec.2017.01.007>

Community Service

- 2013 – 2014 **Project Management**, *Consultoria, Projetos e Pesquisas em Computação (CONPEC)*, Campinas, São Paulo, Brazil
Voluntary work managing projects
- 2014/15 **Volunteer**, *Olimpíada Brasileira de Informática (OBI)*, Campinas, São Paulo, Brazil
Voluntary work monitoring the written tests
- 2013 – 2014 **Member of College Groups**, *Conpec, AAACEC, CACo, Núcleo*, Campinas, São Paulo, Brazil

Education

2013 – 2020 **Computer Engineering**, *Universidade Estadual de Campinas (University of Campinas - UNICAMP)*, Campinas, São Paulo, Brazil

2013 – 2020 **Computer Science**, *Universidade Estadual de Campinas (University of Campinas - UNICAMP)*, Campinas, São Paulo, Brazil

Languages

Portuguese	Fluent	<i>Native Language</i>
English	Advanced	<i>Course at Escola de Idiomas Cultura Inglesa, 2009 – 2011</i>
Russian	Basic	<i>Course at Centro de Estudo de Línguas (CEL), UNICAMP, 2013 – 2014</i>
Spanish	Basic	<i>Course at Escola Estadual Prof. João Dias da Silveira, 2002 – 2004</i>

Other Interests

Freedom, science fiction, Free and Open Source Software, alternative rock, Open Science, movies, politics, electronic music, secularism, artificial intelligence, sciences and philosophy.