

# edson duarte

## *Data Science and Artificial Intelligence*

*"I like being myself. Myself and nasty."*  
*Brave New World by Aldous Huxley*

### Technical Skills

- Advanced Data Science (Python, scikit-learn, keras, tensorflow, numpy, scipy, bokeh), Data Exploration (pandas, jupyter, Databricks, Apache Superset),
- Intermediate Android (Rx, Dagger, Retrofit), GNU/Linux (Arch, Ubuntu), Microservices (Java, Python, Spring, Quarkus, Docker, Kubernetes), Stream and Batch (Apache Spark, Pulsar), Databases (Relational, Documents and Time-series)

### Experience

#### Professional

- 2019 – present **Lead Data Scientist, Chapter Lead and Software Engineer**, *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.
  - 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.
  - 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.
- 2018 – present **Data Scientist**, *Numerai Tournament*, 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.
- 2015 – 2019 **Mobile Developer**, *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, Twillio, 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 altenate formulations and methods of hyper-parameter optimization.  
Advisor: Prof. Jacques Wainer (IC-UNICAMP)
- Publications**
- 2017 **Empirical comparison of cross-validation and internal metrics for tuning SVM hyperparameters**, *Pattern Recognition Letters*.  
Co-author with Prof. Jacques Wainer (IC-UNICAMP)  
<http://dx.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, religion, artificial intelligence, sciences and philosophy.