

Curriculum – Lucas Bracher

Personal Data

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Academic Qualifications

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|----------------------|---|---------------------|
| November 2008 | State University of Campinas (Unicamp) | Campinas, BR |
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- Bachelor Degree in Computing Engineering

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| November 1998 | CTU – Federal University of Juiz de Fora (UFJF) | Juiz de Fora, BR |
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- Assistant Technician in Data Processing

Academic Productions

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| December 2017 | Federal University of Rio de Janeiro (UFRJ) | Rio de Janeiro, BR |
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- Presentation of a Communication at “II Congresso Nacional de Música e Matemática”, where the computational language “ecco!”, of my authorship, was publicly presented in a live performance.

Other Qualifications

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| 2014-2018 | Superare Treinamentos | Juiz de Fora, BR |
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- Practitioner, Master, Trainer I and II in Neuro Linguistic Programming
- Total of 500 hours of training

Previous Jobs

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| From May 2022 to November 2022 | Medsec LLC | Miami, FL |
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Python Fullstack Developer

- Development on frontend and backend using the following technologies: Django, DRF, Javascript, Bootstrap, Elasticsearch

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| From March 2022 to May 2022 | Ovizio Image Systems NV/SA | Brussels, BE |
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Python Fullstack Developer (short term contract)

- General development on Django, Dash, pdflatex and other Python tools.
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**From October 2021 to
February 2022**

eRowz NV/SA

Enghien, BE

Fullstack Developer (short term contract)

- Development of image processor using OpenCV with GPU, general maintenance tickets on existing runners using Flask, Django, MongoDB and Scrapy.
- Technologies and Languages: Linux, Python, Django, Flask, Scrapy, JavaScript, Vue.js, Docker, PostgreSQL, MySQL.

**From January 2020 to
September 2021**

Space Applications NV/SA

Brussels Area, BE

Software Engineer / Developer

- Development and Maintenance of ASB project on Earth Orbit Systems section. This project is an asynchronous distributed satellite data and image processor that handles these data in order to extract features and make inference and predictions. This is a fully scalable system that can use CPUs and GPUs as well in order to process data.
- Technologies and Languages: Linux, Python, Django, JavaScript, Vue.js, Docker, PostgreSQL, RabbitMQ, Celery, Sphinx, LaTeX.

**From November 2019 to
January 2020**

Kiddy & Junior Classes

Brussels, BE

English Teacher

- Teacher for teenagers (11-17 years old), kids (5-10 years old) and toddlers (3-4 years old)
- All classes were given exclusively in English.

December 2019

AB Inbev

Leuven, BE

Freelance / VBA Development

- Freelance consulting on bottles, cans and kegs quality.
- Development of a solution to be applied on each bottle, can and keg line.
- Technologies and Languages: VBA, Advanced Excel.

**From August 2013 to
September 2019**

Bracher Systems (own business)

Juiz de Fora, BR

Software Engineer / Developer

- Freelance consulting and development of web technologies (both front and backend) in georeferencing, geo routing, database administration and algorithm optimization.
 - Technologies and Languages: Bash Script, Python, PHP, MySQL, Node.js, Javascript, JQuery, CSS, HTML.
 - Consulting for Integritas Solutions from 2013 to 2014, where mainly Node.js, MongoDB and AngularJS were used at the projects TripChamp and ECi.
 - Finalist of Shell Ideation Week Brasil 2019, where I was part of the "Dino Team", consisted of me on IT, other person on sustainability and another of oil and gas metier. The project is basically a workflow document manager, written in Python, Django, Bootstrap and Javascript, where the flux of each set of documents is governed by a state machine and directed to each actor, minimizing the amount of emails and keeping all data secure to all stakeholders.
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From April 2012 to July 2013

Nubilaria Srl

Novara, IT

Software Engineer / Developer

- Development of a suite of IBAN data software intended for importing, testing and generation of international banking transaction data. This suite is part of Bankers World Online suite developed for SWIFT (Society for Worldwide Interbank Financial Telecommunication).
 - This suite is used on a daily basis in all associated SWIFT banks of the world.
 - Technologies and Languages: Bash Script, Python, PHP, MySQL Cluster.
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**From March 2009 to
November 2011**

Toptec Engenharia e Agrimensura Ltda.

Americana, BR

Software Engineer / Developer

- Specification, Development and Testing of GEOS GIS suite, used by Celpa, Cemat, Celtins, Rede Energia and CPFL electricity distribution companies. This suite is intended for *in loco* registration of electricity distribution networks. The registration software runs on Trimble Juno high precision GPS handhelds and collected data imported to a proprietary desktop GIS for verification and correction.
 - Data collection and processing had a duration of two and a half years. In this time, data and geographic position of 1,117,562 poles, transformers and home electricity deliver points. 55,098.489 kilometers of mid tension electric network and 49,180.187 kilometers of medium and low tension electric network were also collected. Estimated budget: BRL 3 million (about US\$ 1.2 million on today's value)
 - All network data collected by this system was audited and approved by Brazilian National Electricity Agency (ANEEL).
 - Technologies and Languages: C#, PostgreSQL com PostGIS, Delphi, SQLite, .NET Compact 2.0, .NET 3.0
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**From March 2008 to August
2008**

**CEDET - Centro de Desenvolvimento
Profissional e Tecnológico Ltda.**

Campinas, BR

IT Instructor

- Trained external consultants of corporate market (Brasil Telecom's clients that have 500+ employees and US\$ 4M+/year) in all branches of Brasil Telecom on national territory.
 - This job was, in a nutshell, to explain in an easy and complete way how a computer network runs in order to help non-technical corporate consultants to sell their products.
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**From March 2004 to October
2005**

Conceptia Soluções

Campinas, BR

PHP/Java/Oracle/PostgreSQL Developer

- ERP Compiere porting from Oracle to PostgreSQL.
 - GNU/Linux instructor on Campinas Catholic University.
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**From March 2001 to
December 2003**

CONPEC Junior Enterprise

**Unicamp,
Campinas, BR**

- Human Resources Director – 2003
 - Project Coordinator – 2002
 - Project Follow-Up Junior Manager – 2001
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Other Info

- Advanced level in English and French (reads, speaks and writes)
 - Fluent in Italian and Portuguese
 - Fluent in these technologies: Python, Django, Bash Script, SQL, C, PostGIS, MySQL.
 - Knows the following technologies: C#, Node.js, CSS, HTML, Vue.js.
 - Creator of ecco! language, intended for analysis and studying of musical temperaments. This language was mainly developed in Python with the PLY package (Python Lex and Yacc). Its source code can be downloaded at [GitHub](#).
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