

EMPLOYMENT

Senior Software Engineer	Terrastruct (Remote - San Francisco/US)	April 2022 - present
---------------------------------	--	-----------------------------

- Optimized the graph layout engine (TALA) memory usage and speed by 4x.
- Improved the team productivity with tools to simplify the debugging/profiling steps of the layout engine.
- Researched and implemented the engine for hierarchical and sequence diagrams, opening a new user base.

Senior Backend Engineer	Zyte/Scrapinghub (Remote - Cork/Ireland)	Nov 2021 – April 2022
--------------------------------	---	------------------------------

Platform team / Scrapy cloud

- Built a scalable job scheduler to improve resource usage and improve the throughput for a big customer.
- Maintained and monitored distributed and highly available services on top of a cloud cluster with 30+ computers, running thousands of web crawling jobs and extracting millions of data records per hour.

Software/Data Engineer	Zyte/Scrapinghub (Remote - Cork/Ireland)	Nov 2018 – Nov 2021
-------------------------------	---	----------------------------

- Delivered, and led teams to deliver, monthly TBs of high quality data extracted from the web, growing businesses all around the world from startups to FAANGs and \$B hedge funds.
- Built distributed, reliable and scalable pipelines/workflows to extract data, fix data records, detect data drifts.

Software Engineer	Inventti (Onsite - Blumenau/Brazil)	Jan 2015 - Feb 2016
--------------------------	--	----------------------------

Sep 2017 - Nov 2018

Myrp - Cloud ERP and Point of Sale (POS)

- Built a standalone POS software integrated with Myrp ERP bringing thousands of new customers.
- Built an integration library allowing other POSs to communicate with Myrp ERP bringing new big customers.

Software Engineer	Ellevo (Onsite - Blumenau/Brazil)	Jan 2012 – Jan 2015
--------------------------	--	----------------------------

- Built a mobile optimized version of a web messaging system.
- Mentored 6 interns through their journey to become full-time software engineers.

EDUCATION

Curitiba, Brazil	Universidade Federal do Paraná (UFPR)	Jan 2016 – May 2018
-------------------------	--	----------------------------

- M. Sc. in Informatics: Research in Computer Vision and Deep Learning for Facial Expression Analysis.

Blumenau, Brazil	Universidade Regional de Blumenau (FURB)	Jan 2011 – June 2015
-------------------------	---	-----------------------------

- B. Sc. in Computer Science

TECHNICAL EXPERIENCE

- **Flight Fare Scraper** (2022). Built a scraper to automate my search for award flight fares on Brazilian airlines. Tech: Python, scrapy, rewriting in Go.
- **Brazilian Sign Language Recognition** (2015). Built a web based app to recognize signs of the Brazilian Sign Language using the Leap Motion device. Tech: C#, Javascript, Machine Learning.

ADDITIONAL EXPERIENCE AND AWARDS

- **Hackerspace and GruPy Blumenau** (2019 - present). Organize monthly tech meetups/events in Blumenau.
- **Professor at FURB** (2019 - 2021). Taught classes on Python/R, Information Retrieval, Data Visualization.
- **Open Source**. Contributed to scrapy/tools from Zyte, and to Terrastruct's D2. <https://github.com/ejulio/>.

Languages, Technologies and Practices

I have used the following items on personal, academic or work related projects

- Python; Go; C# .NET; Javascript; SQL (MySQL, SQL Server, PostgreSQL); Redis; NoSQL; Docker.
- RabbitMQ, Apache Kafka; Event Streaming; Batch Processing; Apache Mesos; Grafana; Micro services.
- Scrapy; Django; FastAPI; Pandas; Numpy; Jupyter Notebooks; scikit-learn; OpenCV; Tensorflow; PyTorch.
- CI/CD; SOLID; TDD; Design Patterns; Agile; Observability; Git.