

EMPLOYMENT

Senior Software Engineer	Terrastruct (Remote - San Francisco/US)	April 2022 - present
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- Optimized the graph layout engine memory usage and speed by 4x using algorithms and data structures.
- 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
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Platform team / Scrapy cloud

- Built a scalable job scheduler to improve resources usage and throughput for a big customer.
- Maintained highly available, distributed services and web APIs on top of a cloud cluster with 30+ computers.
- Organized processes and “on call” rotation to reduce interruptions, allowing the team to focus on sprint tasks.

Software/Data Engineer	Zyte/Scrapinghub (Remote - Cork/Ireland)	Nov 2018 – Nov 2021
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- Helped startups, FAANGs and \$B hedge funds grow by delivering TBs of high quality data from the web.
- Designed, and built, distributed and reliable pipelines/crawlers to extract, clean, validate, and store datasets.

Software Engineer	Inventti (Onsite - Blumenau/Brazil)	Jan 2015 - Feb 2016 Sep 2017 - Nov 2018
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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
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- 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
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- 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
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- 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, and 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

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