Blumenau, Santa Catarina, Brazil
Timezone UTC-3

JÚLIO CÉSAR BATISTA

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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 a high availability cloud cluster with 30+ computers, tens of services, thousands of web crawling jobs running per hour and millions of data records stored in Hadoop.

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.