

Júlio César Batista

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Intro

Software engineer with over 10 years of industry experience specializing in backend and data engineering.

Work Experience

Terrastruct

Software Engineer

Remote (Company in San Francisco/US)

2022-present (1 year)

Skills: Go, algorithms, graphs, profiling, PostgreSQL.

Software engineer working on Terrastruct's autolayout engine to generate diagram layouts based on the D2 language (<https://github.com/terrastruct/d2>).

- Optimized the layout engine memory usage and speed by 4x;
- Improved internal tools making debugging and profiling easier;
- Researched and built the engine for hierarchical graphs and sequence diagrams.

Scrapinghub/Zyte

Senior Backend Engineer, Platform

Remote (Company in Cork/Ireland)

2021-2022 (6 months)

Skills: Python (Django), MySQL, Distributed systems, RabbitMQ (Celery), Kafka (Faust), Apache Mesos/Marathon, Docker, Grafana, CI/CD.

- Maintained and monitored the cloud platform alongside the infrastructure team
 - Cloud platform stats: tens of instances of 6 services (APIs); thousands of web scraping jobs scheduled every hour on a 30+ computers cluster; millions of records stored in a Hadoop cluster every day.
- Improved observability through Grafana dashboards and alerts;
- Built an auto scaled scheduler on top of Mesos to improve the cluster's resource usage;
- Organized the team to rotate daily on internal incident responses so that people could focus on their tasks.

Scrapinghub/Zyte

Data Engineer (Team Lead, since 2021)

Remote (Company in Cork/Ireland)

2018-2021 (3 years)

Skills: Python, scrapy, ETL, AWS S3, Docker, Pandas, matplotlib, CI/CD, Distributed Systems, NoSQL.

Data Engineer in the delivery team building web crawlers and data extraction pipelines based on customer demands.

- Delivered hundreds GBs of data for customers all around world: FAANGs, \$B hedge funds, and startups;
- Led teams and projects of 4 people;
- Built pipelines to improve data quality, fix data points and detect data drifts;
- Contributed to open source tools <https://github.com/scrapy/scrapy> and <https://github.com/scrapinghub>.

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Software Developer

Blumenau, Santa Catarina, Brazil

2015-2016, 2017-2018 (2 years)

Skills: C#, SQL, Javascript, Agile, TDD, test automation.

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Internship/Software developer

Blumenau, Santa Catarina, Brazil

2011-2015 (3.5 years)

Skills: Javascript, ExtJS, SQL.

Education

Universidade Federal do Paraná (UFPR)

M. Sc. in Informatics (Research in Computer Vision / Deep Learning)

Curitiba, Paraná, Brazil

2016-2018

Universidade Regional de Blumenau (FURB)

B. Sc. in Computer Science (Research in Machine Learning)

Blumenau, Santa Catarina, Brazil

2011-2015