

Work Experience

Senior Software Engineer	Terrastruct San Francisco, US (Remote)	April 2022–Present
<ul style="list-style-type: none">Optimized the graph layout engine memory usage and speed by 4x using algorithms and data structures.Led the development of a two-way (commit, push,pull) integration between D2 Studio and GitHub.Fixed an issue with concurrent updates when multiple users were working on the same diagram.Researched and implemented the <u>engine for hierarchical and sequence diagrams</u>.Contributed to <u>Terrastruct's D2</u> (13k+ stars on GitHub) open source project, notably <u>PowerPoint</u> and <u>GIF</u> exports.Built an OAuth2 and OpenID Connect (OIDC) compliant Single Sign-On (SSO) flow for self-hosted customers.Improved the team productivity with tools to simplify debugging and profiling the layout engine.Implemented a suite of end-to-end (e2e) and performance tests using k6js.Employee #6.Tech stack: Go, Typescript, React.js, PostgreSQL, Redis, AWS, k6js.		
Senior Backend Engineer Platform (Scrapy Cloud) team	Zyte (formerly Scrapinghub) Cork, Ireland (Remote)	2021–2022
<ul style="list-style-type: none">Built a scalable job scheduler to improve resources usage and job scheduling throughput for a big customer.Organized processes and "on call" rotation to reduce interruptions, allowing the team to focus on sprint tasks.Operated highly available, distributed services and web APIs on top of a cloud cluster with 30+ servers handling 200k+ requests per day, thousands of web crawling jobs scheduled per hour and millions of records scraped per day.Tech stack: Python, Django, Django Rest Framework, Flask, MySQL, Apache Mesos, Celery, RabbitMQ, Apache Kafka, Faust, Grafana, Prometheus, Docker.		
Software Engineer	Zyte (formerly Scrapinghub) Cork, Ireland (Remote)	2018–2021
<ul style="list-style-type: none">Designed and built a generic crawler to download files and articles from thousands of sources. <u>Related blog post</u>.Operated a pipeline (ETL) with 50+ crawlers delivering high quality datasets/week for a FAANG.Operated a large scale, distributed pipeline with 10+ crawlers delivering TBs/month of product and reviews data.Built a crawler to monitor the web for business-to-business (B2B) products being sold in consumer (B2C) platforms.Built a "search engine" pipeline to monitor pages for a given set of keywords and its variations on a daily basis.Mentored 3 students during Google Summer of Code (GSoC) in 2019 and 2020.<u>Contributed to scrapy</u> (47k+ stars on GitHub) and other open source tools from Zyte.Tech stack: Python, Scrapy, AWS, ETL, Docker, Hadoop.		
Software Engineer Myrp - Cloud ERP and Point of Sale (POS)	Inventti Blumenau, Brazil	2015–2016 / 2017–2018
<ul style="list-style-type: none">Built a standalone POS software bringing thousands of new customers.Built a web API and integration SDK for Myrp to synchronize data with any POS software.Built a reliable state machine to ensure invoices were properly integrated with a third-party service.Tech stack: C# .NET, ASP.NET, SQL Server, RabbitMQ, PostgreSQL.		
Software Engineer	Ellevo Blumenau, Brazil	2012–2015
<ul style="list-style-type: none">Tech stack: Javascript, jQuery, SQL Server.		

Education and Certifications

- **M.Sc. Computer Science**, Universidade Federal do Paraná (UFPR), Brazil. **2016–2018**
- **B.Sc. Computer Science**, Universidade Regional de Blumenau (FURB), Brazil. **2011–2015**

Other Skills

- Technologies: Git, Event Streaming, Batch Processing, FastAPI, OpenCV, Tensorflow, PyTorch.
- Other: Agile, Continuous Integration (CI), Continuous Deployment (CD), Unit test, Integration tests, Performance tests (k6), test driven development (TDD), SOLID, Design Patterns.

Extracurricular

Meetup Host	Hackerspace/GruPy Blumenau Blumenau, Brazil	2018–Present
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- Hosted 50+ tech meetups in Blumenau and on [YouTube](#).
- Organized [FLISoL 2023](#) with 9 talks, 2 workshops and 50+ attendees.
- Organized Blumenau Dev Day 2019 with talks from 10 local tech communities and 100+ attendees.

Adjunct Professor	Universidade de Blumenau (FURB) Blumenau, Brazil	2019–2021
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- Python and R for data science: taught the basics of Python and R for data science, including core packages such as pandas, matplotlib, scikit-learn, scikit-image, and numpy.
- Information Retrieval: taught an introduction to information retrieval, including web crawlers, reversed indices, boolean queries and spell checking.
- Data visualization: taught the core concepts about data visualization and types of plots using matplotlib.