Júlio César Batista

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Education

Universidade Federal do Paraná (UFPR)   **Curitiba, Paraná, Brazil**
M. Sc. in Informatics   *2016–2018*
Research topic: computer vision and deep learning for facial expression analysis.

Universidade Regional de Blumenau (FURB)   **Blumenau, Santa Catarina, Brazil**
B. Sc. in Computer Science   *2011–2015*
Research topic: machine learning and computer graphics to help people learn sign languages.

Work Experience

Scrapinghub/Zyte   **Remote**
Senior Backend Engineer   *2021-*
I am a backend engineer working on the general maintenance and improvement of our cloud platform that handle thousands of web scraping jobs every hour. Mainly, I deal with Python with Django and Celery, but also at some infra level on Apache Mesos and Docker to run scrapy jobs on our cluster. We've started using kafka through faust in some parts of our code base to replace a bit of our workflow with RabbitMQ. I'm also a contributor to our monitoring stack, building dashboards to check the systems' status using Grafana to perform queries on Elasticsearch and Prometheus. As in my previous role at Zyte, I'm an active member of the team proposing improvements to our project, products and team. **Tech**: Python, Django, MySQL, RabbitMQ (Celery), Kafka (Faust), Apache Mesos, Docker, CI/CD, testing

Scrapinghub/Zyte   **Remote**
Python Developer (Technical Team Leader, since 2021)   *2018-2021*
I was working as a python developer in the delivery team building custom web crawlers based on customer demands. Over this period I worked on many projects, ranging from small projects (a couple of weeks, a few thousands of requests) to big ones (recurrent maintenance contracts, a hundreds millions of monthly requests), from customers all around the world. Besides the web scraping and some ETL pipelines that I helped building, I had to eprform some analysis on the data we extracted or investigate issues in our scrapers. It involved a variety of tools, mainly pandas, numpy, matplotlib and API integration. From time to time, I also had to work on proper requirements gathering to improve our projects and work closely to our customer to deliver what was expected. **Tech**: Python, scrapy, ETL, AWS S3, Docker, Pandas, matplotlib

Universidade Regional de Blumenau (FURB)   **Blumenau, Santa Catarina Brazil**
Associate Professor   *2019–*
I am a part-time (a Saturday here and there) associate professor for some classes on a Data Science Specialization course. The classes I have thought were related to Python/R for Data Science, Information Retrieval and Web Crawlers, and Data Visualization.

Inventti   **Blumenau, Santa Catarina, Brazil**

Software Developer   *2015–2016, 2017–2018*

I was working as a software developer and the main activity is backend development using C# and ASP.NET, but other activities include: frontend development using Angular, Vue, and Javascript; data analysis using python notebooks and SQL for feature discovery; planning activities and helping the product owner with ideas for features.

IMAGO-UFPR Research Group   **Curitiba, Paraná, Brazil**

Researcher   *2016–*

I was a researcher working on computer vision for facial expression analysis. My main activities include reading/writing/presenting papers and implementing methods to enhance current approaches for facial expression analysis. **Tech**: Python, OpenCV, scikit-image, scikit-learn, PyTorch, TensorFlow, and Caffe. **Papers**: [Batista et al., 2016], [Batista et al., 2017], [Zavan et al., 2017] and [Silva et al., 2019].

Ellevo   **Blumenau, Santa Catarina, Brazil**

Internship/Software developer   *2011–2015*

I started as an intern and then became a software developer. My main activities included frontend software development using Javascript and ExtJS, but I also worked as on the backend writing SQL queries and ASP. Moreover, I was responsible for tutoring four interns on my last year.

Languages

Portuguese: Fluent   *Native*

English: Advanced   *I can engage in social and technical conversations.*

Other skills

Technology related: Python, C#, Javascript, Java, SQL, MongoDB, HBase, Test-Driven Development, object oriented programming, design patterns, software architecture, agile methodologies, algorithms, machine learning, computer vision, distributed systems

Soft skills: Leadership, communication, accountability, initiative, team player, forever learning

References

[Batista et al., 2017]Batista, J. C., Albiero, V., Bellon, O. R., and Silva, L. (2017). Aumpnet: simultaneous action units detection and intensity estimation on multipose facial images using a single convolutional neural network. In *IEEE International Conference on Automatic Face and Gesture Recognition*, Washington, D.C, United States of America.

[Batista et al., 2016]Batista, J. C., Bellon, O. R., and Silva, L. (2016). Landmark-free smile intensity estimation. In Thomaz, C. E., Giraldi, G. A., and Gibson, S. J., editors, *Workshop on Face Processing Applications (WFPA) in the 29th Conference on Graphics, Patterns and Images (SIBGRAPI'16)*, São José dos Campos, SP, Brazil.

[Silva et al., 2019]Silva, L. P. e., Batista, J. C., Bellon, O. R., and Silva, L. (2019). Yolo-fd: Yolo for face detection. In *2019 24th CIARP Iberoamerican Congress on Pattern Recognition (CIARP)*.

[Zavan et al., 2017]Zavan, F. H. d. B., Gasparin, N., Batista, J. C., Silva, L. P. e., Albiero, V., Lucio, D. R., Bellon, O. R., and Silva, L. (2017). Face analysis in the wild. In *2017 30th SIBGRAPI Conference on Graphics, Patterns and Images (SIBGRAPI)*.