

João Pedro Ferreira de Melo Leoncio

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EDUCATION

Federal University of Campina Grande
Bachelor of Science (Computer Science)
February 2012 - May 2017

RELEVANT WORK HISTORY

Technical Lead, Catalyst IT - Wellington, NZ

June 2021 - Current

First joined the team as a Software Engineer having the exact skill set required to rebuild the frontend (AngularJS to Angular) and APIS for PaCT (The Progress and Consistency Tool), one of the platforms Catalyst develops for the New Zealand Ministry of Education. It is an online tool that supports teaching and learning and is widely used in New Zealand schools. Eventually, I took on the tech lead responsibilities that allowed me to work amazing projects.

Some highlights:

- Replatformed PaCT and Te Waharoa Ararau (TWA) onto Kubernetes, making the systems easier to scale and extend. Helping shape and advocating for new platform technologies, moving away from stagnant technology such as Puppet/CentOS which has cornered PaCT into a difficult development market.
- We successfully rebuilt a second MoE platform, Te Waharoa Ararau (TWA), upgrading their frontend (AngularJS to Angular) and APIs.
- Successfully coordinated a number of subsequent BAU releases for PaCT and TWA, keeping the platforms healthy and secure.
- Coordination of releases and its moving parts, incident management, estimating effort and requirement gathering, efficiently and proactively keeping all the parts involved on the same page, ensuring on-time and high-quality releases, keeping bigger picture, budget and time constraints in mind.
- Communication with technical or non-technical stakeholders from both MoE and internal teams.
- Helped to shape and deliver updates to joint Department of Internal Affairs/Ministry of Health projects, took the responsibility for coordinating the frontend development with our BA and API development ahead of the API delivery.
- Mentoring and training of team members towards independent and full stack knowledge, pairing and helping them solve problems by demonstrating and describing thought process. My aim is to have team members that can make decisions by themselves and review each other. They will also learn along the way about the technologies we use.

Technologies: Python, Django, Django Rest Framework, RabbitMQ, Celery, Angular, Kubernetes, Ingress, Mirrord, Docker, Helm charts, Openstack, Ansible, Postgres, Javascript, HTML, Gitlab CI, Nginx, CentOS

Software Engineer, Publons, Clarivate - Wellington, NZ

June 2018 - June 2021

Joined the engineering team as part of the effort to make Clarivate's plans to merge Publons with Web of Science™ ResearcherID be smooth and successful. The platforms together have 2.5+ million researchers, 35+ million publications and billions of documents clustered together to refine the publications' metadata. Hundreds of thousands of Celery tasks are processed each day as part of an ongoing flow of metadata clustering and new incoming data addition. Our team is suggested to be one of the most agile in the company.

- Worked on the revamping of current the Publons Profiles API and UI;
- Worked on Django module refactoring/restructuring;
- Worked on standardization of DRF and RESTful design during refactoring and for new code;
- Worked on the merge of features between Publons and Web of Science™ ResearcherID;
- Worked on performance and stress experiments to ensure preparedness for varying workloads;
- Worked on end-to-end UX improvements on long-waiting user interactions;
- Worked on the full technology stack and across different squads;
- Worked on improvements to performance of dashboards of aggregated data (PostgreSQL and ElasticSearch);
- Led the full development of the Web of Science™ Reviewer Locator product, articulating with other teams' product requirements across the wider organisation;

Technologies: Python, Django, Django Rest Framework, RabbitMQ, Celery, Angular, Backbone, Selenium, Postgres, Redis, Kibana, ElasticSearch, AWS, LESS, Javascript, HTML, Docker, Bash, Jenkins, Nginx

Full Stack Software Developer, e-Pol - Software Practices Laboratory

December 2014 - May 2017

I worked on the “e-Pol” development team that was a new initiative to integrate systems used by the Federal Police of Brazil into an unified, faster and paperless experience. Because of the nature of the project, the development team worked in a dynamic and agile environment.

- Worked in both backend and frontend teams;
- Worked on key features’ implementation;
- Worked directly with the customers to improve bug fix and specification refinement process;

Technologies: Java, Wildfly, AngularJS, Oracle SQL, Hibernate, RESTful HTTP application design/architecture, CSS, HTML, Selenium

Software Developer and Undergraduate Researcher, Software Practices Laboratory August 2013 - December 2014

Developed a system for the monitoring of procurement processes. The project’s initiative was funded by the government and aimed to determine which steps of the processes were lacking in performance.

- Worked with the full development stack as part of a small team;
- Worked on the implementation of the petri net workflows, the experimental concept bringing flexibility to the modeling of the steps the process must complete;

Technologies: Python, GWT, CSS, Javascript, Google App Engine framework, Google Search API and Datastore.

Undergraduate Researcher, BeeFS - Distributed Systems Laboratory November 2012 - July 2013

Research and analysis on the performance and scalability of “BeeFS” (Beehive File System), a new distributed file system that was being developed internally at Distributed Systems Laboratory.

- Personally implemented a Python micro-benchmark system and all the tooling necessary to set up the machine’s environment for experiments. The evaluation considered different scenarios, configurations and workloads pre-configured;
- Also worked on making sense of the data gathered during the experiments; Implemented scripts to build graphical representations of the data;
- The final analysis indicated possible bottlenecks and bugs, comparing to other file systems data generated by the same set of experiments;

Technologies: Python, Bash script, R (software and programming language)

TECHNICAL SKILLS

Java, Python, Kubernetes, Gitlab CI, Angular, AngularJS, BackboneJS, React, Django Rest Framework, Celery, HTML, CSS, LESS, Bash, SQL, Oracle, Postgres, Elasticsearch, Kibana, Redis, E2E testing, Selenium, JUnit, Gulp, SinonJS, Mockito, Express, Karma, AWS, NodeJS, Docker, Docker compose, Mirrored, Hibernate, RESTful API design/architecture, Cloud native design/architecture, Git, Google Web Toolkit, Google App Engine, Jupyter

AWARDS

- Bronze Medalist in Regional Programming Olympiad, Advanced Senior, 2014
- Bronze Medalist in Regional Programming Olympiad, Advanced Junior, 2013
- 94th place in Brazilian Programming Olympiad, 2012
- Bronze Medalist in Regional Programming Olympiad, High school, 2011
- Honorable Mention in Regional Programming Olympiad, High school, 2010

LANGUAGES

English (Fluent)

Portuguese (Native)

Spanish (Intermediate Level)

REFERENCES FOR JOÃO PEDRO AVAILABLE ON REQUEST