

Pedro P Fernandes

Software Engineer

Back-end Developer

Site Reliability Engineer

Information Systems student that loves coding and is interested by almost everything related to computers, specially about information security, networking, privacy on the web, Cloud computing, Linux, open source and the free software movement, artificial intelligence and computer games modding. Has experience with Development and IT Operations.

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Professional experience

- (Internship) Automation Developer -
Raccoon Marketing Digital

March 2019 - September 2019

I worked as an developer intern on an Digital Marketing agency. My role was to write scripts that automated the other teams' work.

The scripts were focused on tasks such as automatic filling of sheets with data from many sources, and sometimes firing alerts based on marketing metrics. Also helped the data science team to write and deploy metric forecasting scripts. It was common to write libraries, wrappers for APIs and auxiliary scripts to be consumed by the Automation team.

Had experience with dealing with clients (other employees from the company), this taught me about soft skills like expectation management, and deep diving to understanding of others' day-to-day work so I could find solutions to their problems.

- DevOps Engineer - Raccoon Marketing
Digital

September 2019 - March 2021

Was responsible for maintaining the technology infrastructure on our Cloud environment, including a Kubernetes cluster and CI/CD pipelines. Was also responsible for helping teams in their software delivery process, in preventing and responding to

incidents with production impact.

The day-to-day activities consisted in installing and maintaining infrastructure software and platforms, providing observability and security for the services. This way, I have familiarized myself with monitoring, dealing with logs and distributed tracing. I also got in touch with network configuration, routing, load balancing, reverse proxies and SSL certificates.

Something that was also part of the job was to implement and help spread DevOps movement and culture in the technology teams, for example, developing automation scripts and helping breaking the knowledge silos between the operations and development teams.

- **Network Site Reliability Engineer - iFood**

September 2019 - Present

I am responsible for maintaining the Layer 7 Network and border components of the technology infrastructure. This included Kong API Gateway, NGINX Ingress Controller, Akamai Edge platform, and all the resources related.

We worked on defining the best strategies for our network communication for requests coming externally to our apps and also for internal system communication, implementing company wide solutions for authentication, authorization, rate-limiting, routing, tracing, logging and monitoring of the network traffic.

The job tasks includes: maintaining Infrastructure as Code repositories, work on monitoring and alerting, with focus in availability and performance optimization. Included writing run-books and documentations, working on CI/CD pipelines, troubleshooting incidents and discussing systems architecture with teams, researching and defining patterns for the company, doing maintenance work, helping developers with network problem and developing automation tools.

Work on projects

- **Graduation Assignment - Software Engineering class**

github.com/techlabx/techlab_app

Mobile device Web App for the [GAPsi](#) group.

GAPsi is a Psychological support group that is helps the students of ICMC USP, the institute of Mathematics and Computing of University of São Paulo. The app is an information aggregator about the group and also an platform for students to schedule

meetings with the group's therapists.

Worked on developing the front-end of the app, using JavaScript, React, Gatsby, HTML and CSS.

As the focus of the class was on Software Engineering, the SCRUM methodology was used during the development of the project, with sprints, organized backlog, daily meetings and such.

- **Graduation Assignment - Internet of Things class**

github.com/AraujoVE/IoT_Application

Worked on a IoT service to remotely control air conditioner devices in the classroom.

The service was coded in a distributed manner, as the students were organized in teams, each one responsible for developing one of the components for the whole service.

I worked as leader on the team responsible for the user interaction, including a front-end website and a back-end server. We used JavaScript, NodeJS + Express, JQuery and MQTT, a IoT oriented messaging protocol.

- **Graduation Assignment - Cloud Computing class**

github.com/PPastorF/twitter-extractor

Worked on a Twitter Extractor project, that retrieves real time informations of Tweets and Users from the free-tier Twitter API, based on configurable search parameters.

The project oriented to events, with availability and efficiency in mind. It consisted of an Golang App, a MySql database and an Apache Kafka instance in between them.

Docker, AWS EC2, Terraform, Ansible and Bash were used to automate the infrastructure for the components.

- **Graduation Assignment - Artificial Intelligence class**

[/github.com/PPastorF/graph-search](https://github.com/PPastorF/graph-search)

Python program that finds best routes on maze-like maps, using graph search algorithms.

Values

- Organization
- Clear communication
- Sincerity
- Teamwork
- Knowledge sharing
- Constant Automation of the work environment
- Clean code

Programming Languages

- Golang
- C
- Python
- Shell scripting
- JavaScript
- HTML / CSS

Technologies and tools

- Linux
- Google Cloud Platform
- Amazon Web services
- Akamai Edge platform
- Agile mothodologies
- Kubernetes
- Docker
- Istio
- Envoy Proxy
- Kong Api Gateway
- NGINX
- Git
- Gitlab CI/CD
- Ansible
- Jenkins
- Chef
- Vault
- Microservices
- SSL Certificates
- Jaeger / OpenTracing
- Prometheus
- Grafana
- Terraform
- Atlantis
- Helm
- Helmfiles
- Apache Kafka
- Apache NiFi
- ReactJS

Graduation

Bachelor in Information Systems

2017 - Present

Universidade de São Paulo

Languages

Brazilian Portuguese
Native
English

English - [C1 ranking on TOEFL ITP exam \(2018\)](#).

Done using Github Pages and inspired on [this template](#).