

# ALLAINCLAIR FLAUSINO DOS SANTOS

## Software Engineer with some Data Science and Tech Lead experience

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Maringá, PR, Brazil

## PROFESSIONAL EXPERIENCE

### Software Engineer – remote – 1.5 year

#### Pinterest (through BairesDev outsourcing)

 Aug 2019 – present  Maringá, PR, Brazil

We provided monitoring and alerting tools to improve observability on Ads Interface & Growth systems. We have worked and developed:

- Time series dashboards for monitoring, alerting and reporting.
- Chrome extension to check API requests miss behavior.

**Main technologies:** Python/Jupyter/Pandas, JavaScript/React, Kibana, SQL, OpenTSDB, and Phabricator (Git).

### Software Engineer – remote – 1.5 year

#### BairesDev



 Aug 2019 – present  Maringá, PR, Brazil

We created screening processes to recruit new employees, and we also helped some colleagues with mentorships.

**Main technologies:** Python

### Assistant Professor – 7 months

#### State University of Maringá

 Apr 2019 – Oct 2019  Maringá, PR, Brazil

I ministered the following subjects: Algorithms and Data Structures, Database, Multi and Hypermedia Systems, Algorithm Analysis, Graph Theory, and Object-Oriented Programming.

**Main technologies:** Python, C, MySQL, and Java.

### Tech Lead & Data Scientist – 4 years

#### Seebot

 Oct 2015 – Sept 2019  Maringá, PR, Brazil

We assembled an entire **smart traffic light (STL)** that can sense streets using cameras and act (open/close) autonomously. Our main achievements were:

- When I led software engineers, we created: STL hardware and software controllers, traffic simulators for traffic optimization, and dashboards.
- We created a traffic simulator using **SUMO**. Our main algorithm on this simulator had 200% to 400% waiting time optimization on light to medium vehicle traffic. We also deployed our STL in four real crossing roads.

**Main technologies:** Python/Gevent, SUMO, Linux/Shell Script/Systemd, R, Git, and Latex.

### Data Scientist – remote – 10 months

#### Earlysec

 June 2018 – Mar 2019  Maringá, PR, Brazil

We developed security systems to advise our clients on assurance issues. We used **Natural Language Processing (NLP)** techniques to filter, train, classify, and cluster social media messages. This way, we could alert our clients if something unusual was happening.

**Main technologies:** Python/Sklearn, Java, Git, Elasticsearch, Kafka, Spark, and Linux.

## SOME INTEREST AREAS

Algorithms

Python

Optimization

Data Science

Stats

Graph Theory

Monitoring & Alerting

R & D

Testing

## EDUCATION

### State University of Maringá

#### Master's degree in Computer Science

 2014–2016  Maringá, PR, Brazil

**Thesis:** Algorithms based on Variable Neighborhood Search (VNS) meta-heuristic applied in the Bus Driver Schedule Problem.

#### Bachelor's degree in Computer Science

 2010 – 2013  Maringá, PR, Brazil

**Thesis:** A genetic algorithm for the Feedback Arc Set Problem.

## MAIN TECH SKILLS

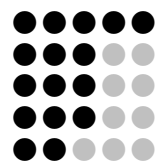
 Python

 JavaScript/React

 SQL

 Linux

 C/C++



## SCIENTIFIC PAPERS

### Journal of Universal Computer Science

 May 2017

Solving a Large Real-world Bus Driver Scheduling Problem with a Multi-assignment based Heuristic Algorithm.

### (PTBR) XLVIII SBPO - Simpósio Brasileiro de Pesquisa Operacional

 Sept 2016

Algoritmos baseados na meta-heurística VNS aplicados ao Problema de Escalonamento de Motoristas de Ônibus.

### 17th International Conference on Enterprise Information Systems (ICEIS-2015)

 Jan 2015

Combining Heuristic and Utility Function for Fair Train Crew Rostering.