ALLAINCLAIR FLAUSINO DOS SANTOS

Software Engineer (32 years old)

@ allainclair@gmail.com linkedin.com/in/allainclair +55 44 99719 1891 Maringá, PR, Brazil

PROFESSIONAL EXPERIENCE

Software Engineer – remote job – 1 year

Pinterest (through BairesDev outsourcing)

Aug 2019 – present Maringá, PR, Brazil

We provide monitoring, alerting to improve Advertiser Interface & Growth systems. I have worked and developed:

- Time series dashboards to monitor & alert.
- Monitoring reports for Ads Team.
- Google Chrome extension for internal purposes.

Main technologies: Python/Jupyter/Pandas, JavaScript, Kibana, SQL, OpenTSDB, and Phabricator.

Software Engineer – remote job – 1 year

BairesDev

Aug 2019 – present Maringá, PR, Brazil

Work on screening processes for new employees and I also did some colleague 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 & Software Engineer – 4 years

Seebot

Oct 2015 – Sept 2019 Maringá, PR, Brazil

We created a full **smart traffic light (STL)** that can sense the streets using cameras and act (open/close) autonomously. I worked:

- Leading software engineers to develop: STL hardware and software controllers, traffic simulators for traffic optimization and dashboards.
- Designing hardware and software for traffic light controllers.
- Designing and developing a traffic simulator using **SUMO**. Our algorithm on this simulator had 200% to 400% waiting time optimization on light to medium vehicle traffic.

Main technologies: Python, Linux (Shell Script and Systemd), R and Git.

Data Scientist – remote – 10 months

Earlysec

June 2018 – Mar 2019 Maringá, PR, Brazil

We used Natural Language Processing techniques to filter, train, classify, and cluster social media messages.
Main technologies: Python/Sklearn, Java, Git, Elasticsearch, Kakfa, Spark, and Linux.

INTEREST AREAS

Algorithms **Optimization** Stats
Graph Theory Monitoring & Alerting
R & D Data Science 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 (9 years)** ●●●●●
- **JavaScript** ●●●○○
- **Linux (12 years)** ●●●○○
- **SQL** ●●○○○
- **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.