

ALLAINCLAIR FLAUSINO DOS SANTOS

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Software Engineer, Python

WHO AM I?

I am a software engineer with nine years of experience. Most of my experience is in backend apps using Python-related technologies. I worked in small and big-sized companies designing, developing, and maintaining scalable apps.

MAIN TECHS

10y Python/FastAPI 🐍
10y Linux 🐧
4y SQL 🗄️
2y JavaScript/React ⚡
8y Git 🔗

EXPERIENCE

4/2023 – Current
4 months – remote

🏢 Software engineer – part time

Martian 🇺🇸

The main Martian feature is an LLM router: a user can send a prompt, and the Martian's model will decide on the best LLM for it.

- I have been contributing to Martian's adapters (github.com/withmartian/adapters). It interfaces with a large set of open and proprietary Large Language Models (LLMs).
- I have also been developing a Sales Dashboard (front and backend) to give the Sales Team insights into our customers. This dashboard uses HTMX/Jinja for frontend and Litestar, Pydantic, MongoDB for the backend.

Techs: Python/FastAPI/Litestar / Pydantic / Pytest / mypy / MongoDB / Jinja / Linux / Docker

8/2023 – Current
1 year – remote

🏢 Software engineer – Full stack

The New England Center for Children 🇺🇸

We design, create, and maintain ed-tech apps. I have been working on creating Python 3.12 FastAPI/Quart/JavaScript services with MySQL to manage and show resources.

Techs: Python/FastAPI / Pydantic / Pytest / mypy / SQL / JavaScript / Jinja / Linux / Docker

9/2022 – 7/2023
11 months – remote

🏢 Backend software engineer

Shipwell 🇺🇸

We designed, created, and maintained backend services integrating load boards across North America.

Techs: Python/FastAPI/Django / Pydantic / Pytest / SQLAlchemy / mypy / PostgreSQL / RabbitMQ / Linux / Docker / AWS / Postman / Rollbar / Datadog / Redis / Terraform

8/2019 – 7/2022
2.9 years – remote

🏢 Software engineer

Pinterest 🇺🇸

• **Trust and Safety Tools as Full-stack:** we provided tools to keep Pinterest trusty and safe. We developed and maintained web tools to assist agents in fast-track trust and safety issues and fixing them.

• **Ads interface and Growth as Back-end:** we provided systems to improve the observability of Ads systems by creating time-series dashboards for monitoring, alerting, and reporting. We created screening processes for new employees and helped some colleagues with mentorships.

I interviewed about 340 candidates to be Python-focused software engineers.

Techs: Python/Flask / JavaScript/React / SQLAlchemy / Linux / SQL / Pandas / Jupyter / Kibana

4/2019 – 10/2019
7 months

🏢 Assistant Professor

Maringá State University 🇺🇸

I ministered the following subjects:

• Algorithms and Data Structures • Relational Database • Multi and Hypermedia Systems • Algorithm Analysis and Graph Theory • Object-Oriented Programming.

Techs: Python / SQL / Java / C

10/2015 – 9/2019
4 years

Tech lead & Data Scientist

Seebot 

• **Tech Lead:** We assembled an entire smart traffic light (STL) that can sense streets using cameras and act (open/close) autonomously. My main achievements were: when I led software engineers, we created a STL hardware and software controllers, traffic simulators for traffic optimization, and web dashboards.

• **Data Scientist:** We created a traffic simulator using SUMO (Simulation of Urban MObility). Our main algorithm on this simulator had 200% to 400% waiting time optimization on light to medium vehicle traffic. We also deployed our smart traffic light in four real crossing roads. To achieve this, we had to: do researches in traffic optimization area by using smart traffic lights, design and develop optimization algorithms for smart traffic lights, design and create embedded distributed real-time systems for the STL with a microservice architecture.

Techs: Python / Gevent / SUMO / R / Linux / Systemd

6/2018 – 3/2019
10 months

Data Scientist

EarlySec 

We created security apps 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.

Techs: Python / Scikit-learn / Java / Elasticsearch / Apache Kafka / Spark / Linux

EDUCATION

2014 – 2016

Master's Degree in Computer Science

Maringá State University 

Thesis: Algorithms based on Variable Neighborhood Search (VNS) metaheuristic applied in the Bus Driver Schedule Problem.

2010 – 2013

Bachelor's Degree in Computer Science

Maringá State University 

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

SCIENTIFIC PAPERS

5/2017

Journal of Universal Computer Science

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

9/2016

(PTBR) XLVIII SBPO - Simpósio Brasileiro de Pesquisa Operacional

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

1/2015

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

Combining Heuristic and Utility Function for Fair Train Crew Rostering.

LANGUAGES

English - Advanced
Portuguese - Fluent

HOBBIES

Sports, Billiards, Beer/Brewing,
Movies, Physics.

NON PROFIT

I help people to learn and develop
in the TI area.