

PARIS MOLLO

SYSTEMS ENGINEER



CONTACT

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Paris

EDUCATION

Master of Computer Science - Distributed Systems and Applications

Sorbonne Université
2023 - 2025

Bachelor of Computer Science

Université Paris Descartes & Diderot
2020 - 2023

CERTIFICATIONS

- AWS Certified Solutions Architect
- AWS Cloud Practitioner
- IBM Blockchain Foundations

SKILLS

- **Programming Languages:** Java, C/C++, Python, Ada (SPARK), Scala, Shell scripting
- **Cloud and Distributed Systems:** Apache Spark, Spark Streaming, Hadoop, Kafka, ZooKeeper, Docker/Containers
- **Database Systems:** HBase, Cassandra, PostgreSQL
- **Networking and Communication Protocols:** MQTT
- **Systems Programming and Architecture:** Kernel Programming, MPI (Message Passing Interface)
- **Formal Methods and Verification:** B (formal method)
- **Embedded and Hardware-related Skills:** Arduino

CONFERENCES

Tedx Speaker, CERN IdeaSquare,
Crowd4SDG Hackathon

LANGUAGES

Portuguese - French - English

PROFIL

Brazilian-born, Paris-based Systems Engineer pursuing a Master's at Sorbonne Université, with proven experience at AWS and a strong focus on developing solutions for urban challenges through distributed systems and IoT technologies. I am looking for a 6-month internship starting in February 2025.

WORK EXPERIENCES

SOLUTIONS ARCHITECT, AMAZON WEB SERVICES

June 2024 - Sep 2024 . Internship Paris

- Developed R-S.A.F.E (Risk - Structural Analysis and Forecasting Engine), a digital twin project for comprehensive city infrastructure monitoring and disaster risk management. Utilized various AWS services including IoT Core, Lambda, SQS, ECS, and Athena to create a robust system architecture. Managed an AppSec side project for an internal AWS web application, implementing security components and AI guardrails.

SOFTWARE ENGINEER, AMAZON WEB SERVICES

June 2022 - Sep 2022 . Internship Paris

- Designed and implemented Project Nabu, a data pipeline application for MAP 2.0 migrations, providing insightful information, assessing migration progress, and storing relevant datasets for future use. Created Project Harmonia, an application that automates the generation of PowerPoint presentations from Asana project data, significantly speeding up the process of creating customer-facing project updates for AWS account teams.

SOFTWARE ENGINEER / DATA ANALYST, BOTMIND

Sep 2019 - Dec 2019 . Paris Station F

- Data Cleaning & Data Labeling for Chat bot. Creation of a script for qualification of prospects and development of an application module. Results: Processed and labeled over 700 user interactions with chatbot

SOFTWARE ENGINEER, WECASHUP

May 2018 - Sep 2018 . Internship Marseille

- Implementation of the Hyperledger Fabric system. (IBM Blockchain). Creation of a business network with Composer Hyperledger. Development of smart contracts with EVM. Results: improve application security and transparency.

PROJECTS

- **CoSMiC:** Implemented a copy-on-write memory-sharing solution for multi-process environments, enhancing efficiency with page table manipulation.
- **OLIFS:** Optimized Linux file system for efficient mid-file insertions and large file editing.
- **LEAF:** Developed an IoT-based environmental monitoring system with real-time data visualization.
- **SLASH:** Created a modular Unix-like CLI with custom commands and advanced I/O redirection.
- **FINDER:** Built a graphical app for interactive pathfinding and routing algorithms.
- **Potamoi:** Designed a real-time flood forecasting system with optimized meteorological data flow.
- **FIRES:** Developed a CNN-based system for fire detection and real-time hazard analysis.