Saalik HATIA

Distributed Systems Engineer

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French

Skills

General Skills	Tools	Languages
Distributed systems	Kafka	**Java**
Consistency protocols	FoundationDB	Scala
Concurrent programming	PostgreSQL	Go
Data replication	NoSQL	C
Formal specification	Redis	Bash
Transactionnal systems	RocksDB	Python
Storage systems	Docker	
CRDTs	Git	**Speaking**
Database design and architecture	UNIX environnement	French - Native
Object Oriented Programming		English - Fluent
Algorithms		

Experience

2018-2023   **PhD Researcher**, *LIP6, Sorbonne Université (UPMC) - INRIA*, Paris
- **Thesis**: **Leveraging formal specification to implement a database backend**
- **Wrote multiple PoC databases**. Wrote with our team **transactionnal** consistency semantics for databases to build correct database backends. Performed consistency benchmarks and performance evaluation.
- Collaborated on two projects involving **industry partners and research labs**. The first one is a european project called **Lightkone (H2020)** and the section one is an ANR project called **RainbowFS**.
- **Collaborated with Scality** in the scope the **ANR RainbowFS** to work on having a converging distributed FS without locks on a Main-Main configuration
- Did a state of the art on **replication** and **consistency** protocols in **distributed** systems, DB backends, CRDTs
- Work and contribution on the **open source research database AntidoteDB** architecture to reduce consistency issues

2020-2022   **Co-Founder, CTO**, *Henquo*, Paris
Online training agency. We offered training in MS Office Suite, interior design software as well as language courses for professionals looking to learn or improve their skills. Henquo also offered consulting for companies looking to create a training program for their employees. Henquo obtained the Qualiopi certification in 2021.

2018-2022   **CS Teacher**, *LIP6, Sorbonne Université (UPMC) - INRIA*, Paris
- Concurrent Programming (Java)
- Object Oriented Programming (Java)
- Operating systems and shell (Bash, Linux)

2018 (6 months)   **Master Research Intern**, *LIP6, Sorbonne Université (UPMC) - INRIA*, Paris
Worked on a new recovery algorithm from the log and safe pruning of the log. I studied the AntidoteDB log and materializer.

2015-2016   **Product Manager**, *ookee (Shutdown)*, Paris
ookee was an Android smartphone startup building a product for senior users. Product manager of services, from business development to vulgarization to designing the products.

Education

2023   **PhD in Distributed systems**, *LIP6, Sorbonne Université (UPMC) - INRIA*

2018   **Master in CS, Systems and Distributed Applications (SAR)**, *UPMC*, Paris
Design and development of distributed, parallel, large scale systems and applications.

Hobbies

Cycling, Cooking, Technology, Machine architecture