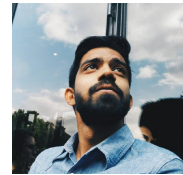


Saalik HATIA

Distributed Systems Engineer

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in Saalik Hatia
Français



Skills

General Skills

Distributed systems
Consistency protocols
Concurrent programming
Data replication
Formal specification
Transactionnal systems
Storage systems
CRDTs
Database design and architecture
Object Oriented Programming

Tools

NoSQL
Redis
RocksDB
Kafka
FoundationDB
Docker
Git
UNIX environnement

Languages

Java
Go
Python
Bash

Speaking
French - Native
English - Fluent

Experience

- 2018-2023 **PhD Thesis**, *Team DELYS - LIP6 Sorbonne Université - INRIA, advisor Marc Shapiro, Paris VI*
- **Collaboration with Scality** in the scope the **ANR RainbowFS** to work on having a converging distributed FS without locks on a Main-Main configuration
 - State of the art on **replication** and **consistency** protocols in **distributed** systems, DB backends, CRDTs and work on improving the **AntidoteDB** architecture to reduce consistency issues
 - Creation of **transactionnal** consistency semantics for database to build correct database backends, wrote multiple PoC databases.
 - **Thesis: Leveraging formal specification to implement a database backend**
<https://www.theses.fr/s267382>
 - **Tech Report: Specification of a Transactionally and Causally-Consistent (TCC) database**
<https://hal.science/hal-02902474v2>
 - **Publication:** Towards a correct, high-performance database backend.
 - **European Project LightKone (H2020)** : <https://lightkone.eu/>
 - **ANR Project RainbowFS** : <https://rainbowfs.lip6.fr/>
- 2020-2022 **Co-Founder**, *Henquo, Paris*
- Online training agency. We offered training in MS Office Suite, interior design 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**, *Sorbonne Université, Paris VI*
- Concurrent Programming
 - Introduction to Object Oriented Programming in Java
 - Introduction to operating systems and shell
- 2018 (6 months) **Master Research Intern**, *LIP6 Sorbonne Université - INRIA, advisor Marc Shapiro, Paris VI*
- Study of the AntidoteDB log and materializer. Work on recovery algorithm from the log and implementing safe pruning of the log.
- 2015-2016 **Product Manager**, *ooke (Shutdown), Paris XIV*
- ooke 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**, *Leveraging formal specification to implement a database backend, Sorbonne Université & INRIA*
- 2018 **Master's Degree in Computer Science (Système et Applications Réparties (SAR))**, *UPMC, Paris VI*
- Design and development of distributed, parallel, large scale systems and applications.

Hobbies

Cycling, Cooking, General tech, Machine architecture, Physics