Adrien SALAIS

Full Stack Engineer

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PROFILE

I am looking for a job four days a week on premise if located near Paris (France), or remote if not.

My large array of expertise allows me to work on small to medium project (in term of work volume or complexity) without requiring the help of other engineers.

For large scale projects, I can intervene and provide counsels on every steps of the project.

E X P E R I E N C E

DISCRET
2020 - Present

Creation of the *Discret* Open Source Software

https://discretlib.github.io/doc/

Discret is a Rust back-end to create peer to peer (P2P) applications, using a GraphQL inspired syntax

- Rust
- SQLite Database
- Cryptography
- QUIC and TLS network protocols
- Flutter
- HTML/CSS
- Peer to Peer networks

BI-SAM
02/2006 - 06/2015

Senior Technical Architect and

Chief Information Officer (CIO).

BI-SAM provides an asset management software that performs financial calculation on banking portfolios, to enrich data for institutional reporting and regulatory purposes.

The volume of data and the daily number of calculations makes performances critically important. My main mission as an architect was to optimize the software:

- Identify the application Hot Spots and improve them with the help of the .
- Optimize client's workflows
- Creating a clustering solution to distribute calculations
- Creating automated tests to prevent performances regressions.
- Database Optimization
    - Analyze critical data access path to creation optimal indexes
    - Reducing the number of database requests

- Reducing the number of insertion
- Database partitioning

Those actions improved performances by at least two orders of magnitudes, allowing the software to handle the largest banks requirements.

My other missions where the following:

- Management of a team of two Technical Architects and two System Administrators.
- Definition of technical infrastructures for SAS (Software As a Service) and on premise deployment.
- Manage the company's technical infrastructure budgets.
- Technical Pre-Sales.
- Technical advisor for the support team.
- Technical advisor for the consulting team.
- Last resort intervention on clients premises.

ESR/MasterSecurity
04/2005 - 01/2006

Developer

Conception of a software to perform audits based on the information security standard ISO/IEC 17799 : 2000.

- Analysis of the SO/IEC 17799 : 2000 standard and creation of a security audit questionnaire.
- Software development in PHP and MYSQL and documentation writing.

UNIVERSITE DE COMPIEGNE
10/2003 - 10/2004

Developer

- Creation of a web site for the *Osmose* research project.

AMBASSADE DE FRANCE TEL-AVIV - ISRAEL
10/2003 - 10/2004

System Administrator

- Management of the French Cultural Center systems.

MAISON DU LAIT
09/1999 - 12/2000

System Administrator

- Migration of a document database from a HP 3000 system to Windows NT.
- User Support.

ÉDUCATION

Université de Technologie de Troyes - UTT
2004/2005

Master 2 - Information Technology (IT) Security

Conservatoire National des Arts et Métiers - CNAM
2002/2004

DEST - Information Technology Engineering

SKILLS

Programming Languages : Rust, Flutter, Java, PHP, HTML/CSS, Javascript.

Database: Oracle, SQL Server, MYSQL, SQLite.

Virtualization : VMware, LXC, Amazon Web Services (AWS).

Security : Cryptography, secured development, security policies and standards.

Languages :

- **French:** first language,
- **English:** fluent.

INTERESTS

Reading books, hiking, cooking, board and video games, DIY (Do it yourself)