Jonathan ARNAULT

Senior Software Engineer

jobs@jonathanarnault.com

Product-minded Software Engineer with 7 years of experience on back-end development with a focus on distributed systems. Experience with microservices, containers, Continuous Integration and server administration.

Work Experience

LORIA - *Research Engineer - Embedded ML* — *Dec 19 - Sep 22*
- Design of a platform that measures compatibility between Machine Learning models and connected devices ;
- Supervision of student research projects on Machine Learning.

TELECOM Nancy - *Teaching Assistant* — *Jan 16 - Jan 20*
- SQL, Algorithms and Complexity to B3 students ;
- NoSQL databases to M2 students (HBase, Redis, ElasticSearch).

Predict - *Data Engineer* — *Jan 18 - Nov 19*
- Deployment of Extract-Transform-Load pipelines for time series data ;
- Extension of a workflow engine for time series to add distributed execution, reducing execution time by 30% ;
- Enhancement of a visualization dashboard, improving load time by 50%.

StarWear - *Co-Founder* — *Nov 16 - Dec 17*
- Business Management including product vision, presentation to stakeholders, financial management and human resources.

Starburst Computing - *Co-Founder* — *Mar 15 - Dec 17*
- Development of a cross-platform orchestration system for distributed applications over a local network ;
- Backlog management for the mobile and desktop applications ;
- Supervision of student research projects on distributed processing.

90Tech - *Software Engineer* — *Jul 16 - Mar 17*
- Design of a distributed workflow engine that served as a backbone for all asynchronous data processing within the company.

INRIA - *PhD Student* — *Nov 15 - Jun 16*
- Improvement of an algorithm that extracted dependencies between network traces to support distributed processing using MapReduce.

Skills

- JavaScript / Node
- Go
- C#
- SQL
- HTML / CSS

- Docker
- ElasticSearch
- MySQL / PostgreSQL

- Distributed Systems
- Software Architecture
- System Design

Education

Google — *2022*
Certification in Digital Marketing Fundamentals.

TELECOM Nancy — *2015*
M.Sc. of Computer Science with a major in Big Data.

IUT Saint-Dié — *2012*
Two-year degree in Product Design and Communication.

Interests

- User Experience
- Teaching
- Ecology
- Photography