Jonathan Arnault

Software Engineer

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Work Experience

Dec 19 - Now   LORIA - *Research Engineer: Autonomous Drone*
- Design of a fog computing platform that help engineer design AI-backed drones
  - AI model training (PyTorch, YOLO3)
  - AI model benchmarking on embedded systems (Raspberry PI, Nvidia Jetson)
- Supervision of student projects

Jan 16 - Jan 20   TELECOM NANCY - *Teaching Assistant*
- Programming 101 (Algorithms, Complexity)
- SQL / NoSQL (HBase, MongoDB, ElasticSearch)

Mar 19 - Dec 19   PREDICT - *Data Visualization Engineer*
- Development of a data visualization dashboard
  - Event timeline
  - Time series with outlier detection

Jan 18 - Dec 19   PREDICT - *Data Engineer*
- Design of a distributed workflow processing engine for time series
- Design of ETL pipelines

Mar 17 - Dec 17   STARBURST COMPUTING - *Co-Founder*
- Backlog Management
- Development of a desktop and an iOS app

Oct 15 - Mar 17   STARBURST COMPUTING PROJECT - *Advisor*
- Advise on Distributed Systems and Messaging
- Supervision of student projects

Mar 15 - Sep 15   STARBURST COMPUTING PROJECT - *Intern*
- Design of a cross-platform orchestration system for distributed applications over a local network

Jul 16 - Mar 17   90TECH - *Software Engineer*
- Design of a distributed workflow engine
- Maintenance of APIs and authentication system

Nov 15 - Jun 16   INRIA - *PhD Student*
- Design of a MapReduce algorithm to extract dependencies between network traces (using NetFlows).

Skills

• JavaScript	★★★
• HTML / CSS	★★★
• SQL	★★★
• Go	★★☆
• C	★★☆
• Swift	★☆☆
• Linux	★★★
• MacOS	★★☆
• Windows	★★☆
• Networking	★★☆
• Docker	★★☆
• Kubernetes	★☆☆

Education

TELECOM Nancy
2012 - 2015
MSc of Computer Science with a major in Big Data

IUT Saint-Dié
2010 - 2012
Studied web development, design and communication

Interests

- Learning
- Teaching
- User Experience
- Cooking
- Ecology