

# SebastienCampion

Senior Research Engineer

## contact

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github.com/scampion  
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## languages

french mother tongue  
english & spanish

## skills

AI Architect, Proof Of  
Concept, Scientific  
Computing, Machine  
Learning, Python, Linux  
Git, Cython, Java, C,  
C++, Javascript,  
HTML5.

## experience

2019 - now **PricewaterhouseCoopers** / Advisory 2700 employees Luxembourg, Luxembourg

### Data AI Architect.

Design and implement a complete data science platform dedicated to large scale real-time analysis for European commission / Taxation and Customs Union Departement.

| Machine Learning | Container orchestration Kubernetes | Data Virtualization | Continuous Delivery |

2017 - 2019 **INRIA** / French Academic Research Institute 2500 employees Rennes, France

### Research engineer in Cybersecurity.

Dealing with various topics like ransomware detection, malware analysis using machine learning techniques or cryptographic protocols.

- Contributing to scientific experimentations.
- Design infrastructures and softwares.
- Requirements analyse and bootstrap projects.
- Establishing roadmap.
- Supervising projects and team leading.
- Recruiting.

| Concolic | ANGR | Call graph | Double Ratchet | Diffie-Hellman |

### Technical director for high security laboratory.

| DMZ Infra | Cisco ASA | Docker cluster | Jupyter | GPU |

2015-2017 **Mediego** / Startup Rennes, France

### Co-Founder and CTO

The solution developed enables to compute efficient and fast recommendations for emailing based on the user's web navigation.

- Product manager.
- Team leading.
- Market study.
- Pre-sales client analysis.
- Proof of concept.
- Support.

| Machine Learning | ANN | Kafka | Cassandra | Mongo | Java |

2007-2015 **INRIA** / French Academic Research Institute 2500 employees Rennes, France

### Research engineer for efficient exploration and indexing in very large multimedia databases.

- Contributing to scientific experimentations
- Managing our platform for indexing multimedia contents
- Coarse-grain distributed computing
- Developing and improving scientific prototypes

- Elaborating corpora / ground-truth for experimentation's evaluations
- Publishing demo and online web services

| *Machine Learning* | *Large scale* | *ANN* | *CBIR* | *Computer Vision* | *NLP* | *Python* | *Redis* | *Scikit-Learn* |

#### Technical director for INRIA forge

| 14 000 users | 4 300 projects |

2002-2007 **Orange Labs** / France Telecom R&D 130 000 employees

Rennes, France

#### Junior Project Manager for TV/VOD metadata management networks.

- Project on metadata aggregation service for multimedia contents distributed on Orange's networks (IP, ADSL, Mobile)
- Mobile TV project: specification and development of an electronic service guide for mobile terminals through an experimentation handled to DVB-H (Digital Video Broadcasting standard).
- Development of TV/VOD portal access by Orange ADSL TV Set Top Boxes.

2001 **Thomson Grass Valley**

Rennes, France

*Internship (3 months)*

Development of a web monitoring tool which centralize logs generated by various MPEG2 audiovisual appliances (gateway, encoder, multiplexer, decoder, ...)

## consulting & teaches

- Expert for the claiming of research tax credit (CIR) by the French Ministry of Higher Education and Research
- Expert trainer in software development for lawyers at IEEPI  
<http://bit.ly/ieepi-scampion>
- Lesson on open source development and Research - Master degree Research  
<http://scampion.github.io/devoss>
- Practical work for "Multimedia Machine Learning Tutorials" - Master degree  
<https://github.com/scampion/multimedia-machine-learning-tutorials>

## education

1999–2002 **Master's degree in Engineering** of Computer Science and Telecommunications

ESIR, University of Rennes 1, France

Specialization in language and computer system.

1997–1999 **DEUG (two-year university degree)** Physics and Chemistry

University of Rouen,

France

Specialization in computer science