Julien Diener

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Date of birth: 07 october 1982

Summary

Skilled bigdata and cloud architect, I specialise in digital transformation of complex computational chains. I am a strong believer of agile methods to optimise productivity while keeping a meaningful and sustainable work for the IT teams. Having worked in many different environments and with a large spectrum of collaborators and specialties, I think I am a good communicator that identifies and conveys importantes information in order to make the best decisions.

Skills

Leadership	Tech	Languages	Analytics
▪ Project conception	▪ Hadoop stack	▪ Java	▪ Financial analytics
▪ Agile methods	▪ Apache Spark	▪ Scala	▪ Data analysis
▪ Proficient communicator	▪ Apache Kafka	▪ Python	▪ Statistics & clustering
▪ Collaborative design	▪ K8S, Docker	▪ C++	▪ Graph theory
▪ Junior mentoring	▪ CI/CD	▪ Javascript	▪ Computer vision
▪ Public speaking	▪ AWS, Azure	▪ css	▪ FEM
	▪ PostgreSQL	▪ php	▪ GPU

Work History

Consultant at Ingeniance

Tech Lead at BNP Paribas
Dec. 2022 - March 2024, Paris

Senior and lead member in a team maintaining a distributed storage and compute platform
- Hybrid bigdata and cloud platform
- Agile methods, CI/CD, Craftsmanship
- Junior coaching and supervision
- Recruitment

Technical architect at Société Générale
April 2019 - Sept. 2022, Paris

Transversal architect assisting the digital transformation to bigdata and cloud technologies.
- Hybrid bigdata and cloud computational workflow
- Agile methods, CI/CD, Craftsmanship
- Derivative product and financial risk metrics

Big Data architect and IT-quant, The-ICA
June 2015 - Feb. 2019, Paris

One of the initial recrute of a startup developing a big-compute and BI tool for financial analysis.
- Lead Big Data architect
- Multi-cloud computational workflow
- Agile methods
- Derivative product and financial risk metrics
- Interactive financial BI with fast incremental re-computation

Engineer at Zenith team, INRIA

XData project:
- Collaborative project between industrials, startups, and academics
- Automated web service for integration of geospatial heterogeneous data
- Web application on cloud using a hadoop+spark+hive stack

Sifr project:
- Ontology-based web-services to leverage biomedical ontologies
- Cross access to NCBO ontology annotators

Postdoc at Virtual Plants team, INRIA
Sept. 2011 - Sept. 2014, Montpellier

High-throughput image processing algorithm to extract the architecture of growing root system.
- Graph theory: multiscale, dynamical
- Image processing
- Collaborative software integration tool and UI (OpenAlea)
- Development of an international file format (RSML - http://rootsystemml.github.io)
- http://github.com/openalea-incubator/rhizoscan

Teaching assistant, Université de Nice
Sept. 2010 - August 2011, Nice

Measurement tool of paramecium ciliary beating from video
- Interdisciplinary collaboration with Biologist
- Signal processing, computer vision and UI Teachings
- Full responsibility of a Java programming class
- Supervision of tutorial classes for undergraduate students

Postdoc at LadHyX, Ecole Polytechnique
Jan. 2009 - Mar. 2010, Palaiseau

Development of a matlab toolbox to study the motion of plants
- Interdisciplinary collaboration with Physicist and Biophysicist
- Signal processing and computer vision
- Statistical clustering
- http://github.com/julien-diener/CRtoolbox

Ph.D at Evasion team, INRIA
Sept. 2005 - Dec. 2008, Grenoble

PhD on motion generation methods for virtual plants, under the supervision of Lionel Reveret.

- *Hierarchical retargetting of 2D motion fields to the animation of 3D plant models*
  J Diener, L Reveret, E Fiume - published in Eurographics-SCA 2006

- *Wind projection basis for real-time animation of trees*
  J Diener, M Rodriguez, L Baboud, L Reveret - published in Eurographics 2009

Education _____

Ph.D. in Computer Science
2005 to 2008
With mention "Excellent à exceptionnel"
Ensimag and **INRIA**, Grenoble

Master 2 in Computer Graphics
2004 to 2005
Obtained a state financed Ph.D
Ensimag, Grenoble

B.Sc in Math with Computer Science
2000 to 2004
With honors of the first class
Heriot-Watt University, Edinburgh