

Saloua Litayem

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Experience

Adnymics GmbH

Senior Data engineer

December 2016 – Present

Improving/Optimizing the existent Data analysis and recommendation system code, Designing/Building new data pipeline (Kafka, Kafka-connect, S3), Defining new data model for the customer data to be used in the BI service, Designing/implementing new in-house Business intelligence service (backend).

- Python, Numpy, Pandas, Redis, Jenkins, Ansible, RESTful APIs, Flask, Docker, Git, mocking, unit testing, PostgreSQL, logstash, Kafka, SCRUM Process, Confluence & JIRA

Adnymics GmbH

Senior Software engineer

February 2016 – November 2016

Improvement/Optimization of the existent Systems, Data analysis, Logging centralization (ELK), in-house recommendation system optimization.

- Python, Numpy, Pandas, Redis, Jenkins, Ansible, RESTful APIs, Flask, Docker, Git, mocking, unit testing, PostgreSQL, logstash, Kafka, SCRUM Process, Confluence & JIRA
- Web scraping, Implementing a rule engine for dynamic coupon campaigns selection, Implementing a Redis based priority jobs queue

Cliqz GmbH

Software/Data engineer, Machine Learning, Data mining

December 2013 – December 2015

ETL, Improvement of the Development Support Systems, Improvement of the Data Quality, Data analysis, News data Integration, deployment and maintenance on AWS, Implementing content based soft-404 web pages detector.

- Python, Redis, Big Data, AWS, Fabric, Docker, Git, Jenkins, Graylog, NLTK, scikit-learn
- Mining social data (Facebook, Twitter), REST-based web API, MapReduce (EMR), Web scraping, Mining large scale user clicks data, ETL

INRIA & Télécom ParisTech

PhD Candidate - Content based image search

October 2009 – October 2013

Large scale supervised image retrieval through hashing methods.

University Paris Descartes

Teaching position

September 2012 – August 2013

INRIA

Master research Intern

2008 – 2009

Large scale object retrieval on local visual features.

- Introduction of an Efficient boosting strategy that aims to render the retrieval time sublinear when using local feature representations of images.
- A new relevance feedback (RF) mechanism that has the originality to work on image regions freely selected by the user

Highlighted skills: C++, O.O programming and design, design patterns, QT3, image retrieval, computer vision

Saloua LITAYEM

Tritux

Web Development Engineer

November 2007 – May 2008

Highlighted Skills: PHP5, MySQL, JQuery, Smarty

INRIA

Software Engineer Intern

March 2007 – August 2007

- Development and design of an API making a TCP/IP C++ server side of a CBIR search engine communicate through standard web services. Images crawling and database expanding using online text search (using yahoo API). Text search interaction feature helps user to get starting point image example for interactive tests and demos. Development of a Web application using the API.

Highlighted Skills: Java Server Faces(JSF), JAVA, UML

Telnet

Trainee

July 2006 – September 2006

- Design & development of a Transaction Level Model (TLM) API layer for the Open Core Protocol (OCP) 2.1 on-chip. Design & development of a graphical Architecture editor.

Highlighted Skills: SystemC, QT3, UML

XVision

Trainee(Graduation Project)

February 2004 – June 2004

- Design & Implementation of a multi-products (software and materials) knowledge base.

Highlighted Skills: ASP.Net, Microsoft SQL Server, C#, Database management and Design, UML

Henkel

Trainee

July 2003 – August 2003

- Design & development of a software for the management of import licenses.

Highlighted Skills: VB, Software Design, Database management and Design, MySQL, Oracle.

Technical skills

Programming Languages: Python (scikit-learn, fabric, boto, pandas, numpy, ...), C/ C++ (OpenCV, Boost, STL, gdb, valgrind, multithreading, ...)

Markup Languages: HTML, XML

Tools: Linux environment (shell scripting, awk, sed, ...), Git, SVN

Databases: NoSQL (Redis, MongoDB), SQL (PostgreSQL, MySQL, Oracle)

Cloud computing: AWS (EC2, S3, EMR, ...), fabric, boto

Object Oriented Analysis and Design: Design Patterns, UML

Others: Docker, Flask, Graylog for log management, Kibana, Jenkins, Ansible

Education

Télécom ParisTech/INRIA

France

PhD candidate in computer science

2009–2013

Higher Institute of Computer Science(ISI)

Tunisia

Master of Research Degree with honors

2007–2009

Intelligent Image Processing and Computer Vision

Higher Institute of Computer Science

Tunisia

Software Engineering Degree with Honors

2004–2007

Software development, software design, web design, databases administration, networks, object-oriented programming, advanced algorithmics, operating systems, computers architecture.

Saloua LITAYEM

Higher Institute of Computer Science

University Degree in Technology with Honors

Algorithms and data structures, Web Development, Object-Oriented Software Engineering.

Tunisia

2001–2004

Interests

Large scale data Analysis

Information retrieval

Technology forecasting

Certifications

- **M101P: MongoDB for Developers** by MongoDB - February 2017
- **M102: MongoDB for DBAs** by MongoDB - February 2017
- **Introduction to Big Data Analytics** by University of California, San Diego on Coursera - December 2015
- **Data Manipulation at Scale: Systems and Algorithms** by University of Washington on Coursera - November 2015
- **Hadoop Platform and Application Framework** by University of California, San Diego on Coursera - November, 2015
- **Machine Learning Foundations: A Case Study Approach** by University of Washington on Coursera- November 2015
- **Introduction to Big Data** on Coursera - September 2015
- **Scalable Machine Learning (Spark)** on edX - July 2015
- **Cluster Analysis in Data Mining** by University of Illinois at Urbana-Champaign on Coursera - Jun 2015
- **CISCO SYSTEMS NETWORKING ACADEMY (CCNA).** - July 2006

Languages

English: Professional working proficiency

French: Native or bilingual proficiency

Arabic: Native or bilingual proficiency

German: Limited working proficiency

Deutsch-Test Für Zuwanderer (DTZ) Zertifikat B1

Organizations

PyData Meetup Munich: Organizer

PyLadies Meetup Munich: Organizer

"FreeWays" University's Free Software Club: Founder and ex-president

Tunisian open source community: Organized and participated to Free Software conferences