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Chief Technical Officer

Specialization : "Backend architecture & Advanced Algorithms"

Professional experience

Since August 2012	• CTO of Algolia , I co-founded the Algolia SAS company. I first worked on technology to design and implement algorithms. I now work on a wide variety of topics since we are a very young startup.
March 2011 - August 2012	 CTO of Masa Group, I defined and lead the technology strategy of the company in line with market perspectives and MASA growth objectives. * In charge of the recruitment of engineers. Manager of 4 R&D teams and 28 engineers. * Defined the Quality Assurance (QA) strategy and built a team of 5 persons. * Lead the market analysis, participated in the business plan and defined the new technical strategy for the new version of MASA Life (AI middleware) * Lead the acquisition of Artificial technology Gmbh from the first discussion to the integration in the MASA Life team * Defined the technology roadmap for future releases of MASA Sword (constructive simulation) and MASA Life (AI middleware) * Defined the transition between a team that develop product and assure professional service in two different teams
Sep 2010 - Feb 2011	 Responsible of Cloud Middleware platform at Dassault Systèmes. * Architect of a massively scalable and innovative Cloud storage and Search platform with high availability of search (never stop user queries), high availability of build (never stop to accept new data), dynamic scalability (add new servers in production automaticaly) * Cloud computing consultant on different Dassault Systemes software to port them in SaaS.
Jan. 2007 - Sep 2010	 Lead Software Engineer and Architect in indexing technology and Natural Language Processing at Exalead (http://www.exalead.com) * Architect and developer of large scale NLP architecture (including more than 20 technological components like transducer or part of speech). I am the architect, the manager (6 developers) and also a developer (developed 5 components of architecture); * Architect and developer of Exalead Index component : new data structures to improve number of indexed document per second, designed new algorithms/data structure to reduce number of IO, reduce latency, (High distributed environement, C++/java); * Created a data structure for real-time suggest on a big data set (many millions). This technology allows to perform approximative matches (using levenshtein distances) in 10ms. * Realized algorithms to resolve some kind of regular expressions with only 1 disk IO (precomputed regular expressions in a specific data structure);
2008-2009	• Text Mining Teacher at Epita : natural language processing, indexing, data structure for in- dexing/analysis (supports available at http ://julien-lemoine.com/cours/)
Jan. 2004 - Jan. 2007	 Advanced Algorithms Engineer for Thales Group : conception of information analysis algorithms, development of OEM components for integrators : Natural Language extraction software : extraction of named entities, relations between entities, specific extraction, from textual documents (author of an international patent on this technology); Data & Text Mining : Conception of a unsupervised clustering algorithm based on Relational Analysis theory (co-author of an international patent on this technology); De-duplication of textual documents : detect duplicates document (author of an international patent on this technology). Development of a phonetizer based on business rules; Participate in two europeen union funded projects : Deserec as data-mining responsible for Thales and Caretaker as responsible of developments for Thales

Skills and achievements

Algorithms & concept	• indexing, data-mining, text-mining (NLP), web-mining, data-cleaning, Artificial intelligence, fault tolerance, scalability, distribution, high availability
Management	 Product & technology strategy (CTO) Team management Budget management Project management
Languages Code versioning	 C, C++, Objective-C, Java, Php git, svn, cvs
Platform	• Android, iOS, Windows Phone 8, Linux, Mac OS, Windows 8
System administration	 Network protocols and services (http, ftp, dns, smtp, nntp, imap,) Network technologies (masquerading, dhcp, firewall, proxy,)
Spoken languages	• English and French (both spoken and written)

Off-hours realizations

- GNU/Linux user since 1996
- Debian GNU/Linux developer between 2002 and 2007 :
- software ports and debug on 11 architectures (x86, m68k, sparc, alpha, powerpc, arm, mips, mipsel, hppa, ia64 and s390);
- creation/management of packages;
- handle of security issue in maintained softwares;
- Communication with other developers (about 800).
- Member of the Happycoders association, and administrator of Happycoders.org servers (www.happycoders.org)
- Developer of
 - Speed Suggest : provides innovative autocomplete feature to web site (http://www.speedsuggest.com);
 - Wikipedia Suggest : a Google suggest like service (http://suggest.wikipedia.org);
 - libsocket : a c++ generic socket implementation (http://happycoders.org/software/libsocket.php);
 - Cross compilation environments : (http://julien-lemoine.com/cross_compilation);
 - others libs and tools available on http://happycoders.org/software/;
 - OrgaDoc : Documentation management software (Eiffel/Gobo);
 - Marmot : XML parser generator (C++/STL).

Formal Education

 EPITA (École pour l'Informatique et les Techniques Avancées) Paris, well-known specialists French School of Computer Science and Engineering. (equivalent to MSc in Computer Sciences) with a specialization in artificial inteligence. Received honors and distinctions of the jury as the summa cum laude graduate

• General Certificate of Education in Science (high school diploma with an emphasis on Science with distinctions).

Other activities

• Practice of jogging, skiing and trekking