

# Daniel Luna

+1 561 699 2101  
✉ daniel@lunas.se  
📄 lunas.se

## *Erlang Sorcerer*

*because sufficiently advanced technology is indistinguishable from magic*

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### Skills

Programming Languages	Guru level: Erlang Excellent knowledge: portable shell script, make Example languages from career: javascript, Awk, Perl, Python, Haskell, Excel, Prolog, C, C++, x86_64 asm, LaTeX, et al Reading and understanding: any programming language
Architecture	Experience designing and creating systems from nothing all the way to paying customers, author of various build systems designed for fully automated deployment to actively running system with zero downtime for users, specialized in distributed fault tolerant systems, believes that there's an upgrade window every second
Erlang Libraries	erlydtl (Django), mongodb-erlang, rebar, cowboy, lager, rabbitmq_client, epgsql, mochiweb, egeoip, erlcsv, chaos_monkey, amqp_client, epgsql, poolboy, common_test, crypto, dialyzer, hipec, inets, kernel, mnesia, pman, sasl, ssl, stdlib, syntax_tools, xmerl, and many more
Databases	PostgreSQL, Mnesia, MongoDB, ets, dets
Tools	git, cvs, subversion, ssh config, Emacs, RabbitMQ, upstart, init, sed, grep, syslog, zsh, sudoers, and everything else you can call from the command line
Protocols	HTML, XML, TCP/IP, XML-RPC, JSON, REST, etc
Operating Systems	Linux, Mac OS X, BSD, Windows, AIX, Solaris

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### Professional Experience

- 2013–now VP - Senior Analyst Programmer, *CLS Bank International*, New York, NY.  
*CLS settles a value of 5 trillion USD-equivalent FX transactions every day, reducing settlement risk for the major banks of the world*  
Responsible for Erlang based settlement simulation platform  
Introducing continuous integration at company and improving build and deploy procedures in multiple projects
- 2011–2013 Senior Software Engineer, *SiftLogic LLC*, Delray Beach, FL.  
*SiftLogic is a startup in the marketing sector. The company provides email verification, scoring, and categorization services for companies doing email marketing*  
Main author of distributed scalable backend  
Creation, setup, and configuration of tests and continuous integration  
Infrastructure written in Erlang/OTP, building with rebar, logging with lager, communicating over RabbitMQ, database initially MongoDB, later Postgres
- 2010 Senior Software Engineer, *Smarmarkets Ltd.*, London.  
*Smarmarkets is a startup combining a betting exchange with an easy to use interface and social features*  
Work on Erlang based trading platform
- 2008–2009 IT Operations Manager, *Klarna AB*, Stockholm.
- 2007–2008 Production System Responsible, *Klarna AB*, Stockholm.
- 2006–2007 Software Developer, *Klarna AB*, Stockholm.  
*Klarna provides billing for online businesses and has become a major player in Europe*  
Part of company growth from 11 employees to 120  
On the software architecture team with responsibility for all major upgrades

- Created the IT Operations department
- Mainly Erlang, with some Make, awk, shell script, version control systems etc
- 2005–2006 Consultant Software Engineer at Ericsson, Rome, *Erlang Solutions*, London.
- 2005 Teacher, *Uppsala University*, Uppsala.
- 2005 Political Secretary, *Uppsala Municipality*, Uppsala.

## Formal Education

- 2007–2008 Part time PhD level studies, Computer Science, *Uppsala University*, Uppsala.
- Article at 2008 ACM SIGPLAN Erlang Workshop
- 2005 Business studies, *Uppsala University*, Uppsala.
- 2001–2005 Master of Science in Computer Science, *Uppsala University*, Uppsala.
- Thesis work on HiPE/x86\_64 included in Erlang/OTP
- Article at 2005 ACM SIGPLAN International Conference on Principles and Practice of Declarative Programming (PPDP)
- Article at 2004 ACM SIGPLAN Erlang Workshop

## Non-Academic Achievements

- 2012 Grand Prize winner of 48 hour Erlang programming competition Spawnfest
- 2011 Six months of travel in South America with 30 liter backpack
- 2005 *Erlang User of the Year* together with the HiPE team
- Github Various minor open source projects released at <http://github.com/dLuna>
- Leadership courses Over 150 hours of leadership courses, including four day course with 70 participants from 30 countries
- Training courses More than 25 full day sessions in teacher and trainer skills

## Positions of Trust

- 2008–2011 Board Member, *Maximilia System AB*, Avesta.  
*Maximilia provides user centric software solutions for the healthcare sector*
- 2010 Director, *Junior Chamber International*, London, (ca 120 members).
- 2010 National Information Officer, *Junior Chamber International*, Sweden.
- 2010 Immediate Past President, *Junior Chamber International*, Uppsala.
- 2009–2010 Deputy board member, *Homeowner Association HSB Sjuan*, Uppsala, (62 apartments and 15 stores).
- 2009–2010 Deputy City Councillor, *Uppsala City*, Uppsala, (ca 200,000 inhabitants).  
*The city council is the highest political power in Uppsala municipality*
- 2009 President, *Junior Chamber International*, Uppsala, (ca 35 members).
- 2007–2008 Vice president, *Junior Chamber International*, Uppsala, (ca 35 members).  
*Founding member, Most Outstanding Member of the Year 2007, Global Ambassador Award 2008*
- 2003–2005 Member of the Sanitation Board, *Uppsala City*, Uppsala, (ca 200,000 inhabitants).  
*The board is responsible for water supply, sanitation, and garbage handling in the municipality*
- 1996–1998 Member of the council, *Swedish Church Youth*, Uppsala diocese, (ca 2500 members).