

# Graham David Alexander King

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CONTACT INFORMATION Telephone: +1 778 708 3979 E-mail: graham@gkgk.org Date of Birth: 27 AUG 1976  
Nationality: British / Canadian Location: Vancouver, Canada

CORE SKILLS **Software Engineering, Python, Django, Javascript, SQL, UNIX, Web**

WORKING KNOWLEDGE Languages, Strong Python, Javascript, Java, SQL, HTML, CSS.  
Languages, Competent PHP, Actionscript, Shell script, C, C++.  
Tools Django, jQuery, Apache httpd, Nginx, Memcached, Wordpress, Sphinx Search, MySQL, Gearman, Monit, Munin, Mercurial, Subversion, RendezVous. And wiki's, index cards and whiteboards.

EDUCATION **Imperial College of Science, Technology and Medicine**, University of London 1994-1998  
MEng in Computing (Artificial Intelligence and Knowledge Engineering)

- Overall Result: 2.1
- Final year project: Intelligent Mobile Robotics: A reactive approach to control systems for simple sensor robot teams.

**Lycee International de St Germain en Laye**, France 1987 - 1994

French Baccalaureate with International Option - Mention Assez Bien (68%) Maths (70%), Economics, Philosophy, Computer Science (100%), Biology (95%)  
International Baccalaureate: European History Higher (6 / 7).

**1st Prize, Concours European d'Informatique** hosted by E.P.I.T.A., Paris, France. Summer 1994

**Sun Certified Programmer for Java 2:** 93% October 2001

EMPLOYMENT HISTORY **Freelance, Fablistic.com.** 2009 - current

"Find new things to do and places to go based on recommendations from people like you. Save all your product and place reviews in one place. Share with friends." [www.fablistic.com](http://www.fablistic.com)

Two year freelance project, doing everything from server (Ubuntu Linux) and database (MySQL) setup and admin, through Python / Django development, up to the Javascript front end and the HTML / CSS. A Python daemon, connected to the site via Gearman, computes similar users, calculates recommendations, and pulls and pushes data to / from Facebook, Twitter, Amazon, and many other sites.

The technology stack is Nginx, Memcached, Apache mod\_wsgi, and MySQL. We used Sphinx for search, and Gearman for messaging / job dispatch.

**Co-Founder, Good Energy.** 2009 - 2010

Startup I co-founded focused on pro-environmental behavior change. As the technical co-founder, I did everything except the design: Hosting and database setup and management on Linux and MySQL (at Linode), Python / Django back end development, and Javascript / jQuery / HTML / CSS front-end development. I also dug deep into social psychology and behavioral economics, as applied to web-based systems. Sales site: [goodenergy.ca](http://goodenergy.ca) or try the demo: [live.goodenergy.ca](http://live.goodenergy.ca).

**Freelance, Sprowtt Marketplace.** 2009

Crowd-sourced venture capital. Short Django / jQuery freelance project getting a prototype ready for their launch at TechCrunch 50.

**Web Developer, Pacifica Group LLC.** 2008 - 2009

Pacifica Group LLC, a subsidiary of KBC Financial Products, specializes in life insurance derivatives, and via it's subsidiary EquityKey, in real-estate / life-insurance crossover derivatives.

Working from home on my own, I architected, built and managed pacificallc.com, equitykey.com, and several exploratory internal-only webapps. They are all Python with Django running in Apache, with MySQL on Solaris. The EquityKey front-end uses Yahoo's YUI Javascript library. Server-side messaging uses Tibco's RendezVous from Python.

**Senior Software Engineer, KBC Financial Products.** 2003 - 2007

In a team of two, we designed, built and maintained all of KBCFP's web and server-side applications.

We built a trading / reporting application for the new Fund Derivatives (Funds of Funds) business in Java / Struts / Hibernate. We designed test-first using JUnit and mock objects, coded as a pair, and interacted with the key users as we went. Aside from the browser, the server has a Swing client which talks COM to Outlook, and clients/interfaces in Excel, C# and Jython.

I introduced Python and Django, with which we built an application for H.R. to handle all the firms recruitment, the KBC AIM and KBC Alpha hedge fund sites, and several others.

We managed our own Linux and Solaris servers and MySQL databases. In June 2007 I took six months vacation to travel, returning to work in January 2008.

**Senior Software Engineer / Technical Architect, Go Internet.** 2002 - 2003

In this role, I introduced the use of GNATS (GNU bug tracking tool), TWiki (web based collaboration tool), code reviews for all production code, and selected XP practices (pair programming, unit tests and continuous integration). Using these tools and practices, I designed and built Java based web applications for Warner music, the Sunday Sport group, Playboy, various smaller companies / entrepreneurs, and ourselves. I led a team re-architecting, designing and building GoContent version 3, which was Go Internet's core product, a framework for pay per view web applications. I also assumed backup system administrator role for our network of Linux machines in three countries.

**Software Engineer, Go Internet.** 2000 - 2002

Working in Java initially on SilverStream's application server on Solaris, I maintained and enhanced GoContent and supported high volume pay-per-view web sites. I evangelized and assisted in moving all company infrastructure from Solaris to Linux. Introduced Tomcat / Struts / Ant, and JUnit for unit testing. During this period I gave lunchtime lectures to colleagues on J2EE, software engineering best practices, estimation and eXtreme Programming.

**Analyst, NatWest Global Financial Markets.** 1999 - 2000

Responsibilities at NatWest involve maintaining and enhancing GFM's derivatives management system. It is 700 000+ lines of C/C++ for X-Windows on SunOS, with a Sybase back-end, and a Perl / shell script / SQL overnight batch. I also developed several Perl tools (including a Perl/CGI & Javascript Intranet site), Sybase system 11 stored procedures and a security module / wrapper

for Atom, GFMs base rate derivatives product in VC++ on NT.

**Database Administrator / Developer, Information Management Associates.** 1998 - 1999

Working on the server side of customer service (call center) projects I worked with Credit Lyonnais (Paris), Iceland and Granada Television. Working from specifications and with customer input I designed Oracle 7 databases and developed automated recoverable data feeds in C / Pro\*C between legacy mainframe databases and Oracle on Unix (HP-UX).

**Systems Analyst, Cedel Bank, Luxembourg.** 1997

On an industrial placement from college, I worked on migrating Cedel's core operations from a mainframe to a network of Solaris servers. With the other placement student, we designed, developed and tested a real-time link between two Oracle databases over UDP providing guaranteed delivery and sequencing. We used C++, C, Pro\*C and PL/SQL.

**Steward for Imperial College Union, London** 1995 - 1996

Event / Bar security.

**I.T. Division of Valentine Paints (owned by I.C.I.). Paris, France.** 1992

PRESENTATIONS

**BarCamp Vancouver 2010:** Psychology for your webapp

**OpenWeb Vancouver 2009:** How and why to extend Firefox in Javascript

**BarCamp London 2007:** Monitor your server with Jabber

PERSONAL  
PROJECTS

**Selected personal projects**

- Good Energy (demo): Good Energy. Django.
- FindTheVine.com: Google Maps and French wine. Django.
- darkcoding.net: My blog. Wordpress and PHP.
- KingGirod.com: Travel blog. Google Maps, Flickr and Wordpress.

OLDER  
PUBLICATIONS

**Don't sweat unit tests**, JavaWorld November 2005  
Learn how to easily test external resources

<http://www.javaworld.com/javaworld/jw-11-2005/jw-1107-testing.html>

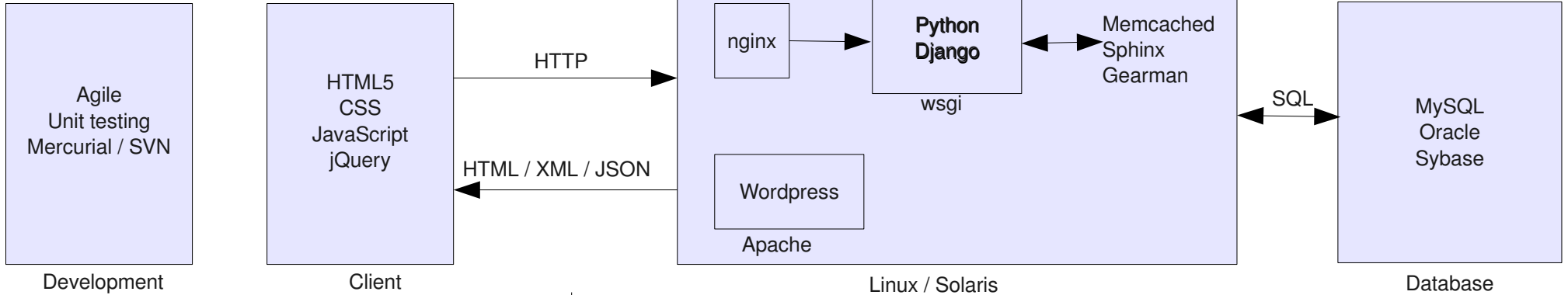
**Practical XML Schema**, JavaWorld August 2005  
A Java programmers guide to XML Schema and Namespaces

<http://www.javaworld.com/javaworld/jw-08-2005/jw-0808-xml.html>

**High-Availability Tomcat**, JavaWorld December 2004  
Connect Tomcat servers to Apache and to each other to keep your site running

<http://www.javaworld.com/javaworld/jw-12-2004/jw-1220-tomcat.html>

**Core skills:**



**Education:**

<p>Lycee International, France</p> <p>Baccalureat International Overall: 68% Maths: 70% Computer Science: 100%</p> <p>1987 - 1994</p>	<p>Imperial College, London</p> <p>MEng Computing (AI) Result: 2.1 Final year project: Intelligent Mobile Robotics</p> <p>1994 - 1998</p>
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**Employment:**

<p>Cedel Bank, Luxembourg System Analyst</p> <p>C, Pro*C Oracle, PL/SQL Solaris</p> <p>1997</p>	<p>IMA London Database Developer</p> <p>C, Pro*C Oracle HP-UX</p> <p>1998 - 1999</p>	<p>NatWest GFM London Analyst</p> <p>C/C++/Perl Sybase Solaris</p> <p>1999 - 2000</p>	<p>Go Internet London Software Engineer</p> <p>Java Silverstream / Tomcat Solaris / Linux</p> <p>2000 - 2003</p>
<p>KBC Financial Products London Software Engineer</p> <p>Python / Java Apache / Django Linux / Solaris</p> <p>2003 - 2007</p>	<p>Pacifica Group, Los Angeles Web Developer</p> <p>Python Apache / Django Solaris</p> <p>2008 - 2009</p>	<p>Good Energy Vancouver Co-Founder</p> <p>Python / Javascript Django Linux</p> <p>2009 - 2010</p>	<p>Fablistic.com Vancouver Freelance</p> <p>Python / Javascript Django Linux</p> <p>2009 - 2010</p>

**Misc:**

1994: 1st Prize, Concours European d'Informatique, Paris, France.  
 2001: Sun Certified Programmer for Java 2: 93%  
 Blogging at <http://www.darkcoding.net>