

Jan Urbański

Software Engineer

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Profile

- over five years of experience in professional software engineering
- familiar with test driven development and working with a distributed team
- deeply interested in relational databases
- hands-on experience with database backed Web technologies
- fast learner, picking up new technologies in days

Experience

Information Technology

- 2011–current **Founder, Ducksboard, Madrid**
one of two technical cofounders in a three-person startup offering a real-time, hosted dashboard for online metrics. Involved with every aspect of the development, from implementing a frontend using AJAX, SVG and Websockets to creating a distributed, horizontally scalable backend in Twisted Python, built on top of RabbitMQ and PostgreSQL with custom extensions
- 2010–2011, 6 months **Software engineer, Szena Risk, Madrid**
one of two engineers in a small company working on a financial risk computation utility. Responsible for everything from administering the local network, developing features and providing training to the non-technical part of the team to defining the future product architecture
- 2008–2010, two years **Core developer, Flumotion Services, SA, Barcelona**
developing the core business technology – a Python and Twisted powered multimedia streaming server available under the GPL, as well as the proprietary clustering and high availability layer, supporting a 24x7 distributed streaming platform serving as a level 3 support, working remotely from home for 6 months during the employment period, collaborating with team members from Great Britain and Philippines
- 2006–2008, 2 years and 7 months **Web developer, Fiok i Wspólnicy sp. z o.o., Warsaw**
Web and database programming, responsible for creating RESTful Internet applications using AJAX technology and integrating them with advanced database solutions, as well as conducting training and consulting in other companies
- Summer 2008, 4 months **GSoc participant, The PostgreSQL Project**
accepted as a Google Summer of Code student. The project involves improving full text search support in PostgreSQL, directly touching some of the database internals
- July 2008, 3 months **Consultant, Autoguard SA, Warsaw**
stress testing the database system for a large vehicle telematics software project

Other

- 2002–2006, 5 years **Lecturer, "Almukantarat" Astronomy Club**
voluntary lecturer at youth summer camps, responsible for giving maths and Linux workshops
- 2001–2005, 4 years **Editor, "Almukantarat" Astronomy Club**
voluntary translator and editor of English astronomical news for a Polish astronomy portal

Education

- 2004–2010 **Master degree, University of Warsaw**
Faculty of Mathematics, Informatics and Mechanics, majoring in Databases

Languages

Polish	native	
English	fluent <i>Certificate of Proficiency in English, grade A</i>
Spanish	fluent <i>collaborates with native Spanish speakers in work environment</i>
Chinese	basic <i>two years tuition at the university</i>
German	basic <i>four years tuition in high school</i>

Skills

programming languages

imperative	proficiency in C, experience with Python C extensions, knowledge of 80x86 assembly
objective	knowledge of Smalltalk, C++, Java
scripting	proficiency in Python, Bash, Awk, knowledge of Perl, Javascript and PHP
functional and others	knowledge of OCaml, Common Lisp, Scheme, Prolog, Dylan

databases

DBMS	profound knowledge of PostgreSQL, familiarity with MySQL and DB2
languages	comprehensive knowledge of SQL, PL/pgSQL, Embedded C in PostgreSQL
technologies	Point-In-Time Recovery, full text indexing, query optimisation

technologies

WWW	DNS, HTTP, SMTP, (X)HTML, CSS, working knowledge of AJAX, profound knowledge of Javascript, familiarity with Django
frameworks	comprehensive knowledge of Twisted, good understanding of GStreamer and multimedia in general, working knowledge of SQLAlchemy
XML and related	XPath, XSLT, XQuery, JSON
version control	practical knowledge of Git and SVN, familiarity with Bazaar

operating systems

Linux	proficiency with using the system, in-depth knowledge of Linux programming, strong administration skills
Windows	proficiency with using the system

Open source

- speaker at PGCon 2010, presenting SAIO, the MSc project on optimising large SQL queries, and txpostgres, a Twisted-friendly PostgreSQL driver
- participated as an invited guest in PGCon 2008, talking about the GSoC project
- contributor to PostgreSQL, GStreamer, Pyscopg and Twisted with accepted patches
- author of several open source projects: flvlib, txpostgres

Interests

databases	database internals, query optimisation, efficiency
Linux	scripting, securing, internals
classic literature	especially Russian literature from the turn of the 20th century
travel	Sweden, Ukraine, Turkey, China, Canada, Mexico, Guatemala and Honduras among others