## **Gregory Stark**

	Address Dublin Republic of Ireland	<b>Contact</b> +353 (0)87 640 9572 stark@mit.edu
E la coltana		1002 1000
Education	Computer Science and Engineering Laboratory in Software Engineering, Compiler Design, Computer S Computer Architecture, Theory of Computation, Assembly Programn Online Courses Mining Massive Data Sets (Stanford University on Coursera)	Systems, Complexity Theory, ning, and Number Theory
Skills	<b>Computer Languages</b> ANSI C 89, Python, Ruby, Perl, ANSI SQL (PostgreSQL, Oracle SQL Server) Lisp variants (Scheme, Elisp), Bourne and POSIX she arcane languages.	e, DB2, MySQL, Microsoft Il programming, and various
	<b>Computer Systems</b> POSIX Unix application level development (Linux, BSD 4.3, NetBS SGI Irix, IBM AIX). Some kernel experience on Linux and NetBSD.	SD, Sun Solaris, DEC Ultrix,
	Experience building highly scalable OLTP database systems with ver- both standard SQL and special Oracle and PostgreSQL features such and GIST indexes.	y high transaction rates using as partitioned tables, arrays,
	Familiar with POSIX Threads, networking protocols (TCP/IP, UDP, and encryption systems (Kerberos, SSH, SSL, PGP).	HTTP, SSL, DNS), security
	Can speak and write English and French. Canadian Citizen. Stamp 4 residency in Ireland	
Experience	<ul> <li>Heroku (Salesforce.com)</li></ul>	er 2013 — September 2014 stgreSQL databases. Specific eation of new replicas, signed databases. eSQL databases. Examined ur) problems, and PostgreSQL postgreSQL bugs, and AWS solutions for common on-call
	Google Ireland Septem Database Engineer Managed multiple databases using Oracle, MySQL, Microsoft SQL Google's Oracle Financials installation, ticketing system, and other on-call rotation responding to emergencies and major operational issue	<i>mber</i> 2009 — August 2013 , and PostgreSQL including critical systems. Served on es.
	Primary owner for team ticketing system database. Managed multiple for the team's largest database. Managed major database upgrade, upgrades. Instituted proactive capacity management procedures. Wor data issues caused by application usage.	physical and logical standbys hardware upgrades, storage ked with developers to debug
	Primary owner for team monitoring software, ticket duty prioritization	software, and on-call rotation

Primary owner for team monitoring software, ticket duty prioritization software, and on-call rotation using custom Google software. Developed custom code to extract key operational metrics from Oracle and integrate it in the Google production monitoring software.

Experience EnterpriseDB UK

*November* 2006 — *May* 2009

## **Continued** *PostgreSQL Developer*

Worked on EnterpriseDB Advanced Server database based on PostgreSQL extended to be compatible with Oracle.

Implemented features for both PostgreSQL and EDB's proprietary derivative product including "online" index builds for PostgreSQL allowing database users to build indexes without locking out other sessions from updating the table being indexed; I/O prefetching for asynchronous I/O on subsystems with multiple drives capable of acting concurrently (i.e. RAID arrays); bounded sort algorithm to optimise top-k queries; denser optimised storage for variable-length data types; and key features used in partitioning and recursive queries.

Also performed customer consultations including training sessions, on-site performance audits (including international travel), and 3rd level support engineering.

Work for other clients included implementing a bit-vector GIST index method for rapid matching of large sets of constraints on a dating web site and designing high level database architecture for a major social networking site.

## Ideas and Associates December 1998 — May 2002 Project Manager and System Architect December 1998 — May 2002

Developed Freelotto.com, the top sweepstakes site in the world. Designed and maintained web server farm running Apache with mod\_perl and Oracle 8.0.5 database handling over a million sweepstake entries per day with 24x7 operation.

Managed growth of Freelotto up to a team of twelve including programmers, system administrators, and database administrators. Migrated system to Oracle 8i, implemented a data warehousing solution and maintained a farm of web servers and mail servers. Was personally responsible for client relationship, and technical requirements of projects.

**Generation.NET** June 1997 — November 1998 Web Development Programmer

- Projects
   PostgreSQL Committer, PGConf.eu Conference Organizer
   2006 —

   As a PostgreSQL Committer I review and commit code contributed to the project by others as well as developing features myself. As part of the PGConf.eu 2013 organizing committee I served as the group's primary local contact. I also organize the Dublin Postgres User Group's monthly meetups, arranging speakers and giving presentations myself.

## W3 (The Emacs Web Browser)

Emacs-W3 is a web browser implemented entirely in Emacs Lisp. I contributed the much improved tables support that implemented the auto-layout algorithm from RFC 1942 as well as rowspan support.

M.I.T. 6.270 (Autonomous Lego Robot Contest) Contest	st Organiser	 1995 — 199	6
M.I.T. Student Information Processing Board (SIPB)		 March 1993 -	