

# Giorgos Keramidas

## Present Address

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## Objective

To work in a challenging environment, with smart people who appreciate beauty and style in the programs we develop. To cooperate with people whom we share mutual respect & appreciation with, and have fun working with each other.

## Open Source Experience

**Contributor**, Mercurial SCM Oct 2006 - Present

- *Technology: Extensive use of Python and ANSI C*
- *Role: Test and software engineering*
- Automated test case development
- Automation of running the Mercurial test-suite
- Evangelism of Mercurial and other distributed SCM systems, among OSS/FS peers
- Support & documentation of newcomers to Mercurial
- Various minor bug fixes

**Contributor**, GNU Emacs Oct 2006 - Present

- *Technology: C, Emacs Lisp*
- *Role: software developer; integrator; customizer*
- Testing of GNU Emacs on FreeBSD and Solaris
- Port maintenance of GNU Emacs on FreeBSD

**Developer**, FreeBSD Project Sep 2001 - Present

- *Technology: C, C++, build & release tools, shell scripting, core UNIX tools*
- *Role: project leadership; lead of issue and ticket tracking; documentation lead*
- Port and maintenance of the Automated Testing Framework (ATF) from NetBSD to FreeBSD (2010-present).
- Technical writing for the manpages, and the online documentation of the FreeBSD Project (2001-present).
- Bug database administrator (retired).
- Technical writer, documentation translator, and team leader of the Greek documentation project (2003-present).
- Member of the FreeBSD Core team (2006-2010).

## Experience

**Site Reliability Engineer**, Google. October 2010 - Present

- *Technology: Highly scalable and distributed systems; low latency software development; C++, Python and scripting*
- *Role: Python software engineer; quality assurance engineer; tech lead for web & maps integration; load testing, capacity planning and provisioning tech lead for maps*
- Technical lead for reliability software in large scale and highly-distributed software projects
- Development of quality assurance and continuous release products for Google's core websearch stack
- Development of integration software and testing tools for web and maps search in a world-wide scale, for critical and latency-sensitive products
- Monitoring, maintenance, and development for internal Google applications and tools.
- Focus on web search infrastructure: release engineering, planning, monitoring, and maintenance of the core search infrastructure.
- Oncall duty for Google's web search stack and the supporting network.
- Developed cluster-health checking tools for Google's massive network of production machines

**Sr. Software Engineer**, Niometrics. June 2009 - June 2010

- *Technology: Low level C and networking; packaging and release engineering; source code management*
- *Role: intrusion detection software engineer; release planning and packaging engineer; source code systems engineer*
- Designed, implemented, deployed and maintained parts of the build infrastructure for company products
- Implementation of SCM infrastructure (initially based on CVS, later on Mercurial)
- Developed network-traffic analysis & statistics tools
- Launched the manual & documentation effort for customer-visible releases
- Technical documentation writing for internally and externally visible tools
- ISO C conformance testing of UNIX-based programs

**Sr. Software Engineer**, Bytemobile, Inc. May 2004 - May 2008

- *Technology: Linux, BSD, Solaris UNIX development; C, C++, Python, Perl, shell scripting; software packaging; source code systems, Perforce, Mercurial, Subversion, CVS*
- *Role: Software Engineer for Solaris; Senior Software Engineer for Solaris; Release Engineer for EMEA; Release engineering lead for EMEA, and trainer for US*
- Low-level software development for UNIX networking code, in Linux, FreeBSD and Solaris systems
- Release management, planning and deployment design for all types of Solaris software
- Set up processes for lifecycle and continuous company-wide releases, quality assurance and deployment of mobile and networking software products
- Analyzed and enhanced build-related infrastructure for products based on the Solaris 8 operating environment
- Developed release-building and development infrastructure for porting Solaris products from SPARC to amd64 and i386 architectures
- Design, implementation and sustaining of build- and release-related frameworks for Solaris 10 based products
- Implementation of SCM infrastructure (initially based on CVS, later on Perforce, Subversion and Mercurial)
- Overall UNIX setup & administration for BSD and Solaris systems
- Development of Solaris based kernel modules for network packet processing, tunneling and statistics' collection
- Technical documentation writing and evangelism of Wikis as a tool for internal documentation
- ISO C conformance testing of UNIX-based programs

**Software Engineer**, Cosmoline S.A. Mar 2001 - May 2001

- *Technology: Java, CVS, C, C++, Perl*
- *Role: Software Engineer for telecomm*
- Implementation of a Java-based replacement of various legacy applications
- Proposal and implementation of a remotely accessible CVS server, for source code management
- Implementation of a semi-large Java-based aggregation application for telephony data collection (call duration, accounting of calls, etc.)

**Systems Administrator**, WestNet, S.A. Oct 1997 - Jan 1998

- *Technology: Shell scripting, Perl, Python, Apache, Java*
- *Role: Linux and BSD administrator; in-house software engineer; web developer*
- Linux and Solaris server administrative work
- Main DNS & email administrator for Westnet and its hosted customer base
- Web development and custom application programming
- Maintenance and support of Windows workstations, for Westnet's employees

**Systems Administrator**, Civil Eng. Department Mar 1997 - Oct 1997

- *Technology: Linux, BSD, HP/UX Unix; Windows NT*

- *Role: System administrator for Civil Engineering Research Lab*
- Installation, support and maintenance of a UNIX lab (mostly HP/UX and Sun systems)
- Support for Windows clients of the UNIX lab

**Systems Administrator**, Comp. Eng. & Informatics Dept. Nov 1996 - Mar 1997

- *Technology: Solaris UNIX; shell scripting*
- *Role: System administrator for Computer Engineering Compute Center*
- Installation and maintenance of SunOS and Solaris systems
- Project-based programming for the UNIX servers of the Computing Center of the Computer Engineering & Informatics Department, University of Patras, Greece

**Communications Skills**

**Languages**

- Fluent in Greek (native language)
- CPE level in English
- A2.3 level in German

**Technical skills**

**Operating systems**

- I've worked briefly with DOS, Windows 3.X
- First UNIX system ever used was SunOS 4.3
- Promptly moved to Linux in 1995-2000
- Became a FreeBSD developer in 2000
- My work the last few years was mostly around Solaris and BSD systems

**Languages**

- A lot of experience with ISO C90 / C99 and POSIX standards
- A bit of experience with C++
- A lot of experience with UNIX shell scripting languages, Perl, and Python
- Can grok and at least understand Java, PHP, Tcl, and several Lisp dialects

**Extracurricular activities**

- A lot of my free/spare time is spent reading literature, and attending writing workshops
- Guitar playing, with a slight preference for Hispanic and Latin music, is another favorite past-time