Salvatore Tomaselli

Curriculum Vitae

Education

2011–2013 **Msc Computer Systems and Networks**, *Chalmers tekniska högskola*, Göteborg, *GPA 4.2/5*.

2007–2011 **B.S. Computer science**, *Università degli studi di Catania*, GPA 110/110. with honors

Publications

Title Towards Lightweight Logging and Replay of Embedded, Distributed Systems

Authors Salvatore Tomaselli, Olaf Landsiedel

Description In this paper we introduce MILD; providing Minimal Intrusive Logging and Deterministic replay.

In ASCoMS 2013

proceedings

Masters Thesis

Title Debugging Wireless Sensor Networks with Incremental Snapshots

Supervisor Professor Olaf Landsiedel

Description This thesis intoduced a tool to capture event from a wireless sensor network, where nodes use TinyOS, and allow deterministic replay of the network inside a simulator.

Bachelor Thesis

Title Sviluppo di server web e sistema di caching per contenuti dinamici

Supervisor Professor Giuseppe Pappalardo

Description This thesis was focused on the implementation of an HTTP/DAV server that can cache and invalidate server-generated responses, leading to greatly reduced IO and CPU loads.

Skills

Languages	In order of experience: Python, C, nesC, Java, PHP, Javascript
Databases	PostgreSQL, administration experience as well
	MySQL
Frameworks	Django, QT, Posix
Software	Debian, GNU Autotools
Technical	Good knowledge of design patterns, modular design and OOP, to organize larger projects.
	Experience in making C code work on various POSIX platforms.
	Familiar with the concepts of functional programming
Github	`https://github.com/ltworf/`

Notable projects

Relational	Relational, a relational algebra parser/compiler/optimizer, used as educational tool in a few universities. Implemented in Python
	Internally can parse and compile queries to Python, and perform some optimizations on the parse tree.
	It provides a GUI for ease of use.
	`https://github.com/ltworf/relational`
lapdog	C++ daemon that uses ICMP+ARP to generate events upon appearing/disappearing of network devices.
	`https://github.com/ltworf/lapdog`
weborf	A HTTP/DAV server, implemented in C.
	`https://github.com/ltworf/weborf`
Canary	Dynamic library to monitor for heap overflows, implemented in C.
	`https://github.com/ltworf/canary`

Experience

2013-	**Backend Python Developer**, *Duego*, Göteborg.
	Write backend API code that interfaces with clients via HTTP, various infrastructure tasks.
2007-2012	**Student's server system administrator**, *Università degli studi di Catania*, Catania.
	Maintain the Student server, install/configure services and develop web interfaces in PHP to use them.
	Manage PostgreSQL database, mail service (Postfix+Dovecot) and webserver (Apache 2).
	Implement a web interface to provide the users means to register projects, with git/svn access and a wiki.
	Various tools to scan the logs and report activity, among the others one scans the access to the projects and notifies the owners of which websites contain links to their project.
2006	**Developer**, *Tau Marmi S.r.l.*, Catania.
	Develop a tool to connect with industrial machines and periodically store the log. Implement a client to connect and reproduce the GUI of the machine, showing the last known status.
	Develop a tool to count worked hours of the employees, and print monthly reports in PDF.

Social skills

I am an easy going person, passionate about software and about making things right.

Debian   At the present time I am a Debian Maintainer (DM).
I maintain mostly packages in C and Python; the most used of them is xinetd.

Languages

Italian   **Mothertongue**
English   **Fluent**
French   **Basic**

Interests

- Music
- SCUBA diving
- Board games
- Literature

Other

I am physically disabled, and I am mentioning it because some countries have specific legislation regarding it.