Fabio Trabucchi

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Highlights   Strong experience in:

- Web application development
- Object oriented programming
- Database design and development
- Analytical problem solving
- System analysis and design

★ Flexible thinking and clear understanding of business needs
★ Solid knowledge of the core database & web technologies and their usages

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Expertise in the following areas

Web Application Development	Object Oriented Programming
Software Application Development	Database Application Design
System Analysis and Design	Modeling, Prototyping and UML
Software Development Life Cycle	Client Needs Analysis
Network Architecture	Linux Server

Summary of Qualification   Professional Information Technology, capable of managing technology projects from concept to completion with deadline sensitivity. Over fifteen years experience as database and web programmer/developer. Strong object oriented programming background and experience combined with several analytical skills as well as system networking and server administration. Great team player through the complete software development life cycle and project management.

Skills

Programming Languages:	Python, Javascript, HTML5, CSS3, Less/SaSS, PHP, C/C++, Objective-C, Bash
Operating Systems:	Linux, Mac OS X, Windows
Databases:	PostgreSQL, MySQL, Sqlite
Frameworks:	Django, jQuery, YUI, Cocoa
Server and Tools:	Git, Mercurial, Apache (full stack LAMP), SSH, Xcode, LaTeX, Microsoft Office, Apple iWorks

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Education and Training	↝ **B.S. in Computer Science,** mark 100/110, University of Parma, Department of Mathematics, Parma, Italy, 2002 - 2008

↝ **B.S. in Computer Science,** mark 100/110, University of Parma, Department of Mathematics, Parma, Italy, 2002 - 2008
Thesis: "Comparative Analysis of Data Structures for the Representation of Space"
Supervisor: Prof. Alessandro Dal Palù, PhD (bioinformatics)

- Classes in computer science area:

- ⋆ Fundamentals of Programming
- ⋆ Computer Architectures
- ⋆ Computer Networks
- ⋆ Databases
- ⋆ Software Engineering
- ⋆ Information Technology 1,2

- ⋆ Algorithms and Data Structures 1,2
- ⋆ Operating Systems
- ⋆ Advanced Programming Methods
- ⋆ Declarative Prog. and Functional Lang.
- ⋆ Web Applications
- ⋆ Geographic Information Systems 1,2

- Classes in math/physics area:

- ⋆ Fundamentals of Computer Science
- ⋆ Mathematical Analysis 1
- ⋆ Linear Algebra and Geometry
- ⋆ Numerical Analysis

- ⋆ Physics 1
- ⋆ Digital Electronics
- ⋆ Operations Research
- ⋆ Probability Theory and Statistics

- Classes in bio/chem area:

- ⋆ Biology 1
- ⋆ Bioinformatics

- ⋆ Chemistry 1
- ⋆ Molecular Modeling

↝ **Degree in Computer Science**, mark 80/100, Industrial Technical Institute of San Secondo Parmense (PR), Italy, 1997 - 2002

Project Profiles and Employment History

DIS North American Office at University of Minnesota Jan 2012 - present

DIS North American Office in the Learning Abroad Center / Global Programs and Strategy Alliance department of University of Minnesota

As Web and Database Lead Developer my responsibilities are to:
- Develop, maintain, and support database applications, professional websites, back-end content management and administration systems integration

- Manage, plan and supervise the software product definition and specification through ITD team as well as define and introduce best practice patterns useful for the software development's lifecycle

- Communicate regularly with IT colleagues in Copenhagen and advocate for the North American Office staff and DIS registrants to continually improve the whole IT business strategy

- Develop interactive web-based applications to support various business operations including student registration, RESTfull API system consolidation

- Manage, maintain and improve development of current web sites and web-application built with Django (Python/PostgreSQL) and Wordpress (PHP/MySQL) web framework

- Program and design the static and dynamic side of UI structure of the web application using HTML5, CSS3 and Javascript using jQuery frameworks and plugins

- Use Git as distributed version control system to keep track of every changes made during development

- Configure and perform IT operations of development, test, staging and production environments such as installing Linux servers from scratch, configure and maintain web servers (Apache), database servers (Postgres), Git repositories, ad-hoc synchronization application services.
- Provide trouble-shooting support to staff and DIS registrants who need support
- Provide general technical support or assist in other projects as needed

Bartolomucci's Lab   Jun 2012 - Oct 2012

Bartolomucci's Lab - Integrative Biology and Physiology department of University of Minnesota

Developed Bartolomucci's Lab website, hosted under UMN domain, using latest HTML5 and CSS3 techniques plus jQuery for some of the UI dynamic parts. The website is developed to have cross-browser and cross-device portability with a nice degradation on older browser and well integrated with Google Analytics and Google Website Tools to provide SEO functionalities. The mobile version (smartphone/tablets), in according with website's owner, will soon be developed using latest techniques of responsive design. The website is managed using FabFile (python deployment tool) and Git using BitBucket code hosting.

Self Employed   Aug 2010 - present

As a freelance Web Developer and IT Consultant my responsibilities are to:
- Work remotely with different companies on different projects at a time with ability to sharply accomplish the assigned tasks and work independently maintaining a strong communication bond and relationship with associated teams and users
- Developing Web Applications using Django (Python/PostgreSQL/PostGIS) and Wordpress (PHP/MySQL) web framework
- Developing Web Applications using PHP5, PHP4 and Mysql
- Developing geo-informatic web application, both front-end and back-end, using GeoDjango, Postgres/PostGIS and Google Maps Javascript API
- Program and design the User Interface of the web applications using HTML5, CSS3 and Javascript (jQuery and YUI frameworks)
- Use Git for distributed version control, feedback and documenting every changes made during development

Charles Darwin Foundation   May 2011 - Aug 2011

The Charles Darwin Foundation for the Galapagos Islands (CDF) is an international not-for-profit organization that provides scientific research and technical information and assistance to ensure the proper preservation of the Galapagos Islands.

As a volunteer Consultant / Web Developer my responsibilities were to:
- Participate on the project Datazone - Biodiversity Assessment - to enhance the middleware section, of the web application used by biologist to register new species, and improve the workflow of data submission

- Develop using the Django framework to model the entities involved into the database
- Use Git for distributed version control, feedback and documenting every changes made during development
- Use MySql database server and Secure Shell server (OpenSSH)

netlogicdc   Feb 2010 - Aug 2010

netlogicdc is a managed service company specializing in building and supporting IT infrastructure in the SMB market. In the beginning of 2010 netlogicdc wanted to build a web application to provide a new service to manage users' PC health with the key concepts of simplicity, automation, and security. With the exception of customer support, there is minimal end-user interaction.

As a Project Manager / Web Developer my responsibilities were to:
- Manage the software product definition and specification as well as planning and supervising the software development's lifecycle
- Gather all requirements and develop documentation to produce a collection of analytical and infrastructure needs
- Prototype and schematize into business models the requirements and design using the UML tools environment
- Develop and refine prototypes to confirm requirements
- Choose the application architectures and frameworks, leading to the budget and schedule for the project
- Build a customized framework to interact with the various third party services, such as a Python wrapper to the Kaseya APIs
- Build an e-commerce platform to sell the service using Authorize.net and Paypal
- Develop using the Django framework to model the entities involved into the database
- Program and design the static and dynamic side of UI structure of the web application using HTML5, CSS3 and Javascript (YUI and jQuery frameworks)
- Use Subversion (SVN) for version control, feedback and documenting every changes made during development
- Configure the development and deployment environment such as installing a Linux server and configure the web server (Apache), the database server (Postgres), the Secure Shell server (OpenSSH) and the Subversion server (SVN), each of them done from scratch

Shiny Frog   Jan 2008 - Dec 2009

Shiny Frog is a creative and young, firm based in Parma, Italy, focusing on Web design and Mac & iPhone software; from 2008 to 2009 it developed and released Mac applications, like Delibar and Img2Icns; it also developed, hosted, and supported many web applications, based on data management requirements, for different companies.

As a Web Developer my responsibilities were to:

- Manage the software product definition and specification as well as planning and supervising the software development's lifecycle
- Gather all requirements and develop documentation to produce a collection of analytical and infrastructure needs
- Prototype and schematize into business models the requirements and design using the UML tools environment
- Develop and refine prototypes to confirm requirements
- Choose the application architectures and frameworks, leading to the budget and schedule for the project
- Develop using the Django framework to model the entities involved into the database
- Program and design the static and dynamic side of UI structure of the web application using XHTML, HTML5, CSS3 and Javascript (both YUI and jQuery frameworks)
- Use Git and Subversion (SVN) for versioning, feedback, and documenting every changes made during development
- Provide support, remote and on site, to customers

La Beccheria s.r.l.   Sep 2003 - Dec 2007

In the beginning of 2003, La Beccheria s.r.l. desired better organization of their data. They called me for a new IT solution, especially to improve computer data processing. In those years the company needed an ERP application and a new office LAN network.

As a freelance Developer and IT Consultant my responsibilities were to:
- Plan and build the entire business LAN network
- Configure a firewall based on a Linux server
- Code in Bash and iptables
- Maintain and support the entire lifecycle of information business planning
- Choose the application architectures and frameworks for the ERP web application
- Code in SQL and pgplsql for the basic model structure and store procedure using Postgres RDBMS
- Code in PHP5 for the basic model structure and HTML interaction
- Code in HTML, CSS and Javascript for the UI structure of application
- Configure from scratch a Linux http server to host the application using Apache
- Migrate data from an old database system to a new Postgres RDBMS
- Provide remote and on-site support for customers products

Open Source Comunity   Jan 2005 - Dec 2005

Developed **Deliwin**, a simple del.icio.us desktop client for Windows. This application was written in Python using WXpython framework for the GUI section.

University of Parma   Mar 2004 - Sep 2004

The Department of Mathematics of the University of Parma began a project titled, "Parma Polyhedra Library", part of an advanced programming techniques course, Advanced Methods of Programming, taught by Prof. Roberto Bagnara PhD, with the help of Prof. Enea Zaffanella PhD. The Parma Polyhedra Library (PPL) provides numerical abstractions, especially targeted at applications in the field of analysis and verification of complex systems.

As a Programmer my responsibilities included:
- Work on a development branch and add *serialization and deserialization* operators for the objects manipulated by the PPL
- Code in C++ and use the basic IOStreamBuffer and IOStreamIterator class
- Code in Make language
- Code in Linux Bash for the test script
- Use Control Version System, CVS

Infocom Group s.r.l.   Jan 1998 - Sep 2006

Infocom Group performs a variety of duties that range from installing applications to developing web sites and web applications, complex computer networks and information databases. A few of the duties that Infocom Group performs include data management, networking, engineering computer hardware, database and software design, web design, hosting, as well as the management and systems administration.

As a Web Developer and Sys Admin my responsibilities were to:
- Build the computer network in the operating center
- Develop a ethernet firewall and bridge firewall for business security using Linux iptables
- Install and configure some linux web and file servers for remote management of the files in a workgroup
- Maintain and support the entire lifecycle of information business planning
- Choose the application architectures and frameworks to develop rich web application
- Code in SQL and pgplsql for the basic model structure and store procedure using both Postgres and MySql RDBMS
- Code in PHP for the basic model structure and HTML interaction
- Code in HTML, CSS and Javascript for the UI structure of application
- Configure from scratch a Linux http server to host the application using Apache
- Provide remote and on-site support for customers products