

ALESSIO VALLERO

Email: alessio.vallero@gmail.com Website: www.alessio-vallero.com

Summary

Innovation

Community resilience improving solutions.

Determination

Ambitious and motivated person. I always do my best until I reach my goals.

Proven

Experienced in development and management of business products, with a constant collaboration with coworkers and customers.

Experience

Datalink s.r.l.

Analyst

March 19^h 2009 – May 28th 2009

This company offer eCommerce and management software solutions. I worked here as analyst for the final project of my Bachelor of Science in Computer Engineering, to contribute to the creation of an internal Extended Enterprise Resource Programming with open source technologies. Thanks to this experience, now I have skills on Business Intelligence, CRM, mail server functionalities and Help Desk, acquiring some knowledge on open source solutions and systems like Linux, OpenERP, Openbravo ERP, SugarCRM and Zimbra.

C System Global s.r.l.

Developer

January 5th 2010 – December 31th 2013

This company is a software house. I worked as SW developer of business applications related to surveillance and management. Thanks to this experience, now I have advanced skills about Windows applications development with the .NET framework and on the interaction with coworkers and customers. In fact I've worked in a team of 10 people in order to improve a software called SCS – Supervision and Control Software (<http://www.gps-standard.com/en/content/scs-%E2%80%93-supervision-and-control-software>), working on video codec, UI-improvements, DB improvements (SQL Server 2008), extensions, bug fixing, integration of new camera models, memory manage analysis, performance analysis, help desk and direct contact with customers. I've also worked for a year on a business SW made with .NET Silverlight (G.E.S.A.T. - <http://www.gesat.it/gesat>), Windows driver approval from Microsoft and a cash validator.

EDAM (Earthquakes Damage Assessments Manager)

Main developer

March 12th 2014 – Present

As final project of my master degree I spent several months as visiting student at the University of California (Berkeley, USA) working with the PEER department (<http://peer.berkeley.edu/>) to develop an application for Android and iOS to manage earthquakes damage assessments with the cross-platform language Appcelerator Titanium. Related to this application were published two articles titled "INTEGRATED DAMAGE ASSESSMENT SYSTEM USING MOBILE PHONE TECHNOLOGY DURING 2012 EMILIA EARTHQUAKE" for the Second European conference on Earthquake Engineering and seismology, Istanbul Aug. 25-29, 2014 and Vallero, A., Cimellaro, G. P., and Mahin, S. (2015). "Earthquake rapid loss assessment using communication systems to improve resilience of emergency

responders." Proceedings of 2015 Structures Congress (SEI2015), ASCE- American Society of Civil Engineering, Portland, Oregon, April 23-25, 2015. Currently the application is available on Google Play and Apple Store and is called EDAM (Earthquakes Damage Assessments Manager) and was tested with the EERI group (<https://www.eeri.org/>) during the earthquake of South Napa (CA) occurred on Aug. 24th, 2014, getting amazing results in terms of utility and stability.

More informations available at the website:

<http://areeweb.polito.it/IRUSAT/index.php>

deltatre s.r.l.

World Football Web developer

October 13th 2014 – March 13th 2015

Maintenance and development of the website www.fifa.com. The structure of this website involves the creation of static pages, whose dynamic structure is managed through CMS. The web part is based on xslt ASP.NET in Visual Studio 2013 environment. Gained experience on agile JIRA environment to manage group work within the company and in collaboration with FIFA.

Post-Graduation project

Research Title: Development of virtual cities models during emergencies

From April 15th 2015

As visiting student at the University of California (Berkeley, USA) working again with the PEER department (<http://peer.berkeley.edu/>), I will develop applications for smartphones, tablets and desktops to collect earthquake damage data on site and focus on the development of an application for monitoring parking in high-density traffic regions. I will also develop the interface of the app EDAM with different databases (SPO, Clearinghouse, etc.).

Other works

- I contributed to the creation of a website for the professor Gian Paolo Cimellaro of the DISEG department of the Politecnico di Torino, taking care of both client side (HTML, CSS and Javascript) and server side (PHP);
- Other personal projects developed during my Master of Science in Computer Engineering, available at:
<https://github.com/AlessioVallero>

Technical

Programming Languages / Frameworks

SQL, T-SQL, VB.Net, Visual Basic, C#, C++, C++/CLI, HTML, JavaScript, PHP, Java, ASP/ASP.Net, SilverLight, Appcelerator Titanium, SmartPhone Development, Google Maps

Software

SQL server(2005,2008), Microsoft Visio, Microsoft Visual Studio, Eclipse, Business Object, Titanium Studio

Education

Bachelor of Science in Computer Engineering 104/110

2006 – 2009 Politecnico di Torino – Turin, Italy

Master of Science in Computer Engineering 101/110

2012 – 2014 Politecnico di Torino – Turin, Italy

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PACIFIC EARTHQUAKE ENGINEERING RESEARCH CENTER

UC Berkeley • Caltech • OSU • Stanford • UC Davis • UC Irvine • UC Los Angeles • UC San Diego • USC • U Washington

October 28, 2014

To Whom It May Concern,

it is my pleasure to recommend Alessio Vallero. From March through September 2014, Mr. Vallero worked at the Pacific Earthquake Engineering Research Center (PEER, a nine-campus research center headquartered at the University of California, Berkeley) as a Visiting Student Researcher to conduct his M.S. final project. During this time, he was under my supervision and has also been actively engaged with other faculty, students and post-doctoral researchers involved in his area of research.

Mr. Vallero has demonstrated a deep understanding of his field. He was a quick learner and did not hesitate to expand his knowledge.

Throughout all this time, Mr. Vallero made sure to explore the necessary theoretical concepts, but also put great emphasis on apply them properly in the practical context of his project.

With this approach, he was able to analyse his findings much more appropriately, and ultimately delivered a very remarkable piece of research with his mobile app EDAM (Earthquakes Damage Assessments Manager).

Mr. Vallero has done an excellent job, and I do not hesitate to recommend him and wish him the very best for the future.

Sincerely,

Stephen A. Mahin, Ph.D.

Director, Pacific Earthquake Engineering Research Center (PEER)

+1 (510) 693-6972

mahin@berkeley.edu