

Biography

Phone:

Date of birth: 25/06/1987

Place of birth: Rovereto, Italy

Citizenship: Italian

Language skills: Italian native, English fluent

Website: alessandrorosa.com

Driving License: B (Car)



Skills

Advanced knowledges: Backend Development, Software Engineering, IT Networks & Systems, Monitoring Tools, DataCenter Management, Customer Development (Startup methodology).

Languages: C# framework .NET 4.5+ (senior experience), Java 6+ (mid-senior experience). I daiully use the most important software design patterns Repository/Service, Unit of Work, DTO, Singleton e others. Bash, Python (just started to learn Django 3), L^AT_EX, HTML5.

IDE: Visual Studio, IntelliJ IDEA, Visual Studio Code, PowerGUI. **DBMS:** PostgreSQL, Oracle, MySQL, SqlServer.

Code Versioning: GIT and SVN.

Datacenter: Install, manage, configure VMware VSphere 5 (or greater) datacenters. Managed more than 250 VMs on a productive environment. Deployed and managed Docker containers for Java and NodeJs microservices.

OS: Proficiency in Linux (Debian, RHEL, SLES), Windows (Desktop & Server) and Mac OS X.

Networking: Fully proficiency on L2 and L3 (VLAN & Firewalls) network devices: more precisely I've been working with HP Procurve switches, Fortinet & Cisco Firewalls and Riverbed Steelhead bandwidth optimizers.

Proxy, Reverse Proxy & Balancer: NGINX, Apache Web Server and IIS.

Backup: Planning, strategy manager and main responsible for VMs backups. Veritas NetBackup and Veeam software.

Storage: Proficiency on storage configuration (correct RAID configuration, recovery, performance check). Extend, manage and partition LVMs.

Software: Vim, WireShark, VMware VSphere, SNMP monitoring tools (OpenNMS & Nagios), ArcMap and ArcGis Server.

Experiences

- Trilogis SRL - Italy
Senior Software Engineer, Senior Systems Enginner

Rovereto, TN
May 2015 – Present

- C# Backend Development , Web API 2. Libraries used: NHibernate 4, Entity Framework 6+, Autofac, AutoMapper, Swagger. Senior experience.
- Java Backend Development, RESTful Web Service. Framework used: Spring Framework 3+ (Data JPA, Boot, Security, WebServices, Session). Mid-Senior experience
- Software design & development required by Multiutilities companies: Web Services and Angular SPA
- Development and maintenance of the main .NET company framework (.NET 4.6 and .NET Core, ORM NHibernate and EntityFramework).
- Development and maintenance of the Identity Provider software (started from IdentityServer and forked it). Good knowledge on OpenId Connect and OAuth2 protocols
- Co-leader on network and systems infrastructure: 3 physical servers, 1 DAS storage and 50 VMs. Hypervisor VMware vSphere 6, hypervisor upgrade and migration done by myself
- Install, configure and maintain the monitoring tools of the company, SNMP is my friend. Service SLA monitoring
- **Workshop attended:** ArcGis advanced training, ArcGis Server advanced training, Microsoft Azure, Microsoft Azure cloud app development and services

• Leitner Ropeways - Italy

Sterzing, BZ

• SAP IT Infrastructure Manager

Jan 2013 – May 2015

- Understand and oversee the SAP infrastructure landscape including interfaces to third party systems. Ensure a smooth execution of system changes by providing knowledge and by focusing on a proper flow of information between parties.
- Create, maintain and provide architectural documentation
- Represent the main contact for specific SAP infrastructural questions
- Coordinate external partners on infrastructure level
- **Projects:** document and implement solution for existing SPOF in our infrastructure; redesign the in place Data Management System; create a cluster for the in place Output Management System; rebuilt the whole SAP servers infrastructure using SLES 11 HA components (i.e Corosync, STONITH and vSphere Fault Tolerance).
- **Workshop attended:** OpenText Archiving Solution, Seal Systems Output Management

• Leitner Ropeways - Italy

Sterzing, BZ

• Systems Engineer

Jan 2012 – May 2015

- VMware Farm co-manager: ESXi 5.1 Update 1
- Layer 2 and 3 network infrastructure manager. I assure a smooth running of wired and wireless networks with a heed on QoS and packets optimization.
- Monitoring System manager for alerting administrators in case of issues. The product in use is OpenNMS: many customization have been done using Java, Maven and Python scripting.
- Linux Server administration: File Servers, Web Servers, Proxy, Project Management (Redmine) and Versioning.
- Scripting activities for Windows and Unix/Linux systems
- **Projects:** built a global triangle with OpenNMS to enhance the availability of the monitoring system. Implemented LAN Segmentation and fault tolerance (L2 and L3) in 5 different branches. Globally manage Cisco Wireless LAN environment. Bash scripting project orders transport over SFTP (for SAP), New VMware Farm installation/upgrades. Microsoft Lync 2013 implementation and deployment for 2300 users (with several adjustments for improving bandwidth consumption).
On June '13, we rebuilt the main Data Center here in Sterzing: more than 3300 users depend on it.
- **Workshop attended:** OUCE (OpenNMS User Conference Europe) 2012 and 2013 in Fulda (Germany) .

Education

• University of Padova, Faculty of Engineering - Italy

Padova, PD

• Computer Engineering MSc

Sep. 2009 – Dec. 2011

- **Key Courses:**
 - 1st year:** Operational research, Real time systems, Digital signal processing, Large datasets, Three dimensional data processing, Theory of computation, Parallel computing.
 - 2nd year:** Strategic management of organisations, Artificial intelligence, Distributed systems, Information retrieval, Economies of Information.
- **Main Projects:**
 - * Project Leader (Parallel Computing) - Testing PARSEC benchmark on Gem5 Simulator System. Cross-compilation of benchmark for the alpha architecture and studied the scalability of the simulations systems using severals Nehalem i7.

- * Real time systems: Create a scheduler governed by the policy *Latest Release Time*. Fully developed in Java, output visualisation via “kiwi”

– **Final Project:**

Internship at the University of Padova, define a model that helps new entrepreneurs to design and refine a business models. The thesis is titled “Creating a Startup: from the business model to the market validation”

• **University of Padova, Faculty of Engineering - Italy**

Padova, PD

• *Computer Engineering BSc*

Sep. 2006 – Sep 2009

– **Key Courses:**

1st year: Mathematics, Physics, Fundamentals of Computer Science, Circuits and Logic Systems.

2nd year: Signal and Systems, Fundamentals on Electronics, Fundamentals of Control Theory, Fundamentals of Communications Systems, Electrical Engineering, Data Structures and Algorithms I, Computer Architecture.

3rd year: Software Engineering, IT Systems, Operative Systems, Databases, Data Structures and Algorithms II, Computer Networks, Business Administration and Organization.

– **Main Projects:**

- * Project Leader (Database) - Design and implement a 3NF (PostgreSQL) database for a coffee roasting company

- * Project Leader (IT Systems) - Single Sign-On feasibility study for the municipal administration department of Padova

– **Final Project:**

Design and create a collaborative tool for sharing and presenting research projects and business startup.

Participate in the realization of the 2nd edition of Research and Innovation Forum using CMS technologies.

• **ITI G. Marconi - Italy**

Rovereto, TN

• *High School Diploma, Computer Specialization; Grade 100/100*

Sep. 2001 – Jun 2006

Hobbies & Volunteering

- Sports: ski touring, running, volleyball and mountaineering.
- IT is my passion. Since 15 years I’m reading, studying and working on IT topics.
- Blood donor, AVIS (Associazione Volontari Italiani Sangue) member since 2008

In compliance with the Italian legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.