Manuel A. Fernandez

Senior Systems Engineer/Administrator, Semi-Senior Software Developer
30 years old - Based in Buenos Aires, Argentina

Technical Skills

Systems infrastructure

- GNU/Linux infrastructure deployment, maintenance, performance tuning and troubleshooting experience
- Common services (HTTP, DNS, E-mail, MEAN, LAMP) and network (VLAN, load balancing systems) deployment
- Modern system infrastructure design, deployment and monitoring assorted experience. Nginx, Vagrant, Zabbix, Graphite, Grafana, ElasticSearch, Logstash, Kibana, Redis, RabbitMQ, Kafka, Zookeeper
- Containerization knowledge using Docker (Swarm and Machine)
- Windows Server 2008-2012, Hyper-V, PowerShell assorted knowledge.

Cloud Computing, Databases and High Availability

- Amazon Web Services EC2, S3, Glacier, Route53 experience at medium scale (± 500 instances)
- Infrastructure-As-Code experience, Ansible/Terraform provisioning mostly
- High availability platform design using HAProxy, Pacemaker, Corosync
- MySQL/PostgreSQL/Cassandra administration, troubleshooting and performance tuning.

Software Development

- Experienced finding bugs and troubleshooting issues with IDA Pro, Hopper, Valgrind, gdb
- Scala/Go system services, networking, application messaging development experience
- Python/Bash programming experience, with emphasis on tasks automation
- Repository and CI/CD pipeline deployment experience using Jenkins and Git.

Professional Experience

Web.com **(March 2015 – present)**
Senior Unix Systems Engineer III

- Solutions design, documentation and troubleshooting at Systems Triage team, 100% remotely
- Advanced troubleshooting/root cause finding for many different issues, including BGP routing issues, ElasticSearch clustering, Redis data corruption, DDoS mitigation, resources abusing from customers, Ansible failing deployments, malware detection, post-mortem analysis, performance degradation, etc.
- Helped scale the company's Unix-based web hosting infrastructure to 500,000 HTTP requests/minute
- CentOS, Debian, FreeBSD, Solaris 10, Docker/ Apache Mesos, ElasticSearch, Marathon, Mesos, AWS S3 buckets, Ansible, Apache Kafka, Logstash, Kibana, NetApp, F5 BigIP daily interaction
- Helped unify deployment/provisioning/self-healing strategies for several production platforms
- Experience with Atlassian Jira, Confluence platforms.

Buenos Aires Honorable Legislature Palace **(December 2012 – March 2015)**
Senior IT Consultant

- Infrastructure deployment and maintenance on a 150+ RHEL Docker environment
- Apache HBase/HDFS small cluster deployment and monitoring for image fetching
- Terabyte-range MySQL legacy databases migration to HBase/HDFS
- Multi-GPU rendering project design and proposal for CAD processing.

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30 years old - Based in Buenos Aires, Argentina

Foundational S.A.   **(March 2008 – April 2015)**
IT Consultant/Director

- I owned an IT consulting service based at La Plata, Buenos Aires offering infrastructure solutions
- VMware vSphere ~1000 total servers/workstations and vSAN storage/backup strategy design, documentation and deployment for Gulf Stream Marine, Houston, Texas, USA
- Windows 7 workstations virtualization and centralization (Hyper-V, SCCM) and complete Active Directory infrastructure for Telefónica de Argentina, La Plata, Buenos Aires
- Consulting experience on highly available, scalable, resilient systems, focusing on FOSS stacks.

Portfolio available upon request.

Code available at GitHub.

Symantec Corporation   **(January 2010 – April 2012)**
Senior Malware Analyst

- Symantec Endpoint Protection Manager customer-oriented troubleshooting
- Windows-based malware reverse engineering, threat actor tracking and mitigation
- Technical documentation writing. Microsoft Visio and LaTeX experience.

Visa Argentina   **(January 2009 – October 2009)**
Microinformatics Analyst

- Home Banking application deployment, maintenance and troubleshooting
- SVN experience committing testing and production source code
- Apache Tomcat, JBoss troubleshooting / profiling / performance tuning.

Information about past job positions (2003 – 2009) and referrers is available for reference.

Education

Computer Science Licentiate at Universidad Nacional de La Plata, 2011 (unfinished).

Additional Information

- Oral and written skills in **English, Italian, Russian** and **Norwegian** (bokmål)
- **Argentine / Italian** citizenship and up-to-date passports
- United States of America **B1/B2 visa** owner, valid until May 2024
- Single, no relatives in charge, **available for worldwide relocation**
- **Interests**: archery, gymnastics, sax, drums, free-diving, complex technologies.