

Angelo Failla

STAFF SITE RELIABILITY ENGINEER

Dublin, Rep. of Ireland

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"The best way to complain is to make things."

Summary

Engineering leader with 25+ years of experience, including 14 years at Meta/Facebook, specializing in large-scale systems and organizational leadership. Proven track record in delivering projects, leading teams, and driving technical direction across organizations.

Extensive experience in infrastructure and data center automation, with expertise in system architecture, incident management, and cross-functional collaboration. Track record of successful technical leadership and organizational influence at scale.

Demonstrated versatility in roles ranging from hands-on technical work to strategic leadership, including coding, system architecture, incident response, mentoring, and public speaking at conferences ([view talks](#)).

Seeking senior leadership role to leverage experience in team direction, business alignment, and infrastructure reliability. Proven ability to drive improvements across technical and organizational boundaries while focusing on solving critical business problems.

Work Experience

Meta(Facebook)

Dublin, Republic of Ireland

STAFF PRODUCTION ENGINEER (IC6)

March 2011 - Present

I naturally gravitated towards core infrastructure, and worked on internal core systems like DNS, LDAP, NTP, monitoring tooling, and tooling to help with data center automation tooling (bare metal provisioning space). I have driven various initiatives to improve the performance and reliability of our core infrastructure services bringing down bare metal provisioning times. Recently I have moved to the Network OS team, working on redesigning the network operating system for our FBOSS switches.

April 2014

PRODUCTION ENGINEER (CLUSTEROPS -> CLUSTERINFRA -> HOST PROVISIONING ENGINEERING -> DC BOOTSTRAP)

2020

After the SRO team automated itself out of existence thanks to automation, I moved to the ClusterOps team. The ClusterOps team was responsible for core infrastructure services like DNS, LDAP, NTP, DHCP, TFTP and internal services to orchestrate bare metal provisioning.

- DHCP infrastructure overhaul: In 2013/2014 I rewrote the DHCP infrastructure from scratch, replacing the old ISC DHCPd with a new system that was more reliable, scalable and easier to manage. The system was based on ISC KEA and implemented C++ hook to integrate with Facebook's internal systems. I made a presentation about it at SRECON EMEA 2015, and an interview on the ISC blog.
- **dhcplb**: I wrote most of the code that runs Facebook's DHCP infrastructure, including an open source DHCP library at <https://github.com/insomniacslk/dhcp> that is used by several big tech companies. After the rewrite, this became one of Meta's most reliable services, with near-zero operations. The cleaner structure made it easy to modify and test by other teams, simplifying the creation of new, specialized use cases.
- Core infra services:

March 2011

SITE RELIABILITY ENGINEER (SRO TEAM)

April 2014

I joined Facebook in 2011 as a Site Reliability Engineer (SRE) in the Site Reliability Operations (SRO) team. The SRO team was a follow the sun team, with a sister team in Palo Alto, responsible for being the first responder for the reliability of the entire Facebook infrastructure. This gave me the opportunity to learn a lot about internal technologies and systems. I learned how to manage systems at scale, how to deal with incidents/disasters. Being based in Dublin gave me the opportunity to work during quiet mostly incident free hours, which has allowed me to focus on automation and tooling.

- Contributed to the development of internal tooling like **FBAR**, Facebook Auto Remediation, HostChangeLog, etc
- Performed emergency hotfixing and pushing of the www application
- Performed cluster maintenances: kernel updates, OS updates, host reprovisioning, and others
- Troubleshooted broken hardware and software issues
- Contributed migrating fleet from **cfengine2** to **chef**
- Architected and implemented Facebook's initial **netconsole** monitoring system for kernel-level diagnostics. The solution leveraged Linux netconsole module to capture kernel printk messages via UDP/syslog, enabling critical debugging capabilities when disk logging was unavailable. Designed and deployed a scalable architecture using cluster-based rsyslog daemons integrated with **scribe** infrastructure. This foundational work later evolved into **netconsd**, now maintained by the Kernel Platform Engineering team.

NewBay Software

SENIOR DEPLOYMENT ENGINEER

Dublin, Republic of Ireland

February 2008 - March 2011

Newbay Software provided digital content services, like photo storage, blogging and social aggregator platforms, primarily for telecommunication clients like T-Mobile and Telstra. The company was acquired by RIM and subsequently sold to Synchronoss Technologies.

- Managed software deployment and customer integration projects for major telecommunication clients, including T-Mobile (Germany/US) and Telstra (Australia).
- Provided advanced troubleshooting and issue resolution for MMS, SMS, standalone, and web-based applications.
- Developed and maintained software deployment tooling.
- Executed front-end deployments, ensuring seamless user experience and functionality.
- Configured and deployed VPNs with various telecommunication companies to establish secure SMS/MMS gateways.
- Proficient in a diverse technology stack, including Cisco IPSEC VPNs and networks, Oracle/MySQL databases, Java Messaging Systems, F5 BigIP Load Balancers, Red Hat and Solaris operating systems, and Tomcat/JBoss application servers.

MOVIA SpA

UNIX SYSTEM AND NETWORK ADMINISTRATOR, PROGRAMMER AND IT CONSULTANT

Catania, Italy

September 2005 - January 2008

- Administered and maintained the company's corporate network infrastructure across three Italian offices (Rome, Milan, Catania).
- Managed and secured the corporate intranet utilizing OpenVPN and Cisco routers.
- Oversaw the company's web presence, mail servers, mailing lists, version control systems (CVS), and internal ticketing systems.
- Provided expert consultation to Nokia Italy, Vodafone Italy, and LogicaCMG on an as-needed basis.

ComputerLine SRL

UNIX SYSADMIN AND NETWORK ADMINISTRATOR

Catania, Italy

December 2004 - September 2005

Small web agency providing web hosting, web design, and IT consulting services to local businesses.

- Ordinary maintenance of internet services like DNS server, Web servers, FTP servers, Mail servers etc.
- DNS domains registration and maintenance.
- Troubleshooting and, technical support for customers and internal staff.

UZED@ SRL

WEB DEVELOPER AND SYSTEM ADMINISTRATOR

Catania, Italy

December 2004 - September 2005

Small web agency providing web hosting, web design, and IT consulting services to local businesses.

- Ordinary maintenance of internet services like DNS server, Web servers, FTP servers, Mail servers etc.
- DNS domains registration and maintenance.
- Troubleshooting and, technical support for customers and internal staff.

University of Catania, Department of Engineering

WEB DEVELOPER

Catania, Italy

January 2001 - December 2002

I was responsible for building and maintaining the students e-learning portal.

Infozoo Project

VISUAL BASIC DEVELOPER

Catania, Italy

January 2001 - March 2002

Small software house developing software for the retail sector. I have worked as a Visual Basic coder, my mainly responsibility was writing drivers to enable communication between electronic scales (on RS232).

Publications

PUBLIC TALKS

- | | | |
|------|--|-----------------|
| 2016 | FBTFTP: Facebook's open source python3 framework for dynamic TFTP servers , EuroPython 2016 | Bilbao, Spain |
| 2015 | DHCP Infrastructure Evolution at Facebook , SRECon EMEA 2015 | Dublin, Ireland |
| 2014 | Python @ Facebook , Pycon Ireland | Dublin, Ireland |

OTHER PUBLICATIONS & MENTIONS

- | | | |
|------|---|--------|
| 2019 | Extending DHCPDLB: The path from load balancer to server | Online |
| 2016 | DHCPDLB: An open source load balancer | Online |
| 2015 | Interview on the ISC's blog, How Facebook is Using Kea in the Datacenter | Online |
| 2015 | Using ISC Kea DHCP in our data centers | Online |
| 2015 | Looking back on "Look Back" videos | Online |

Education

Completed 10 of the 30 exams while juggling tech jobs, then chose to leave to explore new opportunities and secure full-time work.

Projects

PoApper (Developers' Network of POSTECH)

CORE MEMBER & PRESIDENT AT 2013

Pohang, S.Korea

Jun. 2010 - Jun. 2017

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

Extracurricular Activity

PoApper (Developers' Network of POSTECH)

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PLUS (Laboratory for UNIX Security in POSTECH)

MEMBER

Pohang, S.Korea

Sep. 2010 - Oct. 2011

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.