Giacomo **Cortesi**

SOFTWARE ARCHITECT

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Summary

Current Project Lead at JMA Wireless. 5+ years experience specializing in full stack development, infrastructure automation, and system/network administration. Passionate about automating every bit of the infrastructure and enthusiast Linux user. Always willing to learn new tools and technologies.
Happy GO developer since 2018.

Education

Alma Mater Studiorum - University of Bologna   *Bologna, Italy*

M.S. IN TELECOMMUNICATIONS ENGINEERING 110/110L   *Sep. 2015 - Mar. 2018*

- Thesis: Open-source Software Solutions for Management and Orchestration of Virtualized Network Infrastructures

Francesco Venezze College of Music   *Rovigo, Italy*

B.S. IN JAZZ BASS 110/110L   *Sep. 2012 - Aug. 2017*

- Thesis: Indagine Storico-Tecnica sulla musica Funk

Alma Mater Studiorum - University of Bologna   *Bologna, Italy*

B.S. IN ELECTRONICS AND TELECOMMUNICATIONS ENGINEERING   *Sep. 2012 - Oct. 2015*

- Thesis: Misura delle Prestazioni di Sistemi di Comunicazione Basati su Luce Visibile

Work Experience

JMA Wireless   *Bologna, Italia*

SOFTWARE ENGINEER   *Aug 2017*

- Project lead for the implementation of a microservice-based O&M software architecture compliant with O-RAN standard. Based on Angular frontend and GO backend/agents, backed up by postgres database. 10+ Docker microservices deployable on k8s through Helm Charts. Integrated with Prometheus and Grafana for metrics collection and visualization. Fully automated declarative Jenkins pipelines for CI/CD. Responsible for the architecture design and implementation as well as team organization and work prioritization.
- Development of full stack software for server provisioning leveraging multiple technologies: PXE, Redfish, DHCP. Angular frontend with a python-flask backend and a huge set of bash scripts, backed up by a MongoDB database. All Docker services deployed through docker-compose.
- Development of full stack software for network hacking and discovery integrated with Netbox. React frontend with a python-flask backend. Docker services deployed through docker-compose, as well as Helm Chart definitions for OpenShift deployment. Declarative Jenkins pipelines for CI/CD.
- Development of a DHCPv4/DHCPv6 client fully written in GO.
- Development of full stack software for test automation framework, integrated with several testing tools and simulators (Jira, Prisma, Amarisoft). React frontend with a python backend.
- Development of Saltstack custom components (engines, states and modules) to accomplish several goals, such as: security assessment, host configuration and monitoring, firewalling.

Skills

DevOps	Docker, Kubernetes, OpenStack, Jenkins, Saltstack
Back-end	GO, Python
Front-end	Angular, React
Languages	Italian, English