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WORK EXPERIENCE

Senior DevOps Engineer	**Beyond You**	**Mar 2023 - Present**

· Architected, implemented, and lead the development of the Beyond You website, including frontend, backend, multilingual support and intranet configuration (**Django, React, Bootstrap, Postgres**)
· Took charge of all server operations, ensuring security through firewall configurations and permissions, and overseeing high availability and monitoring (**Docker compose, Linux, nginx**)
· Managed and administered both AWS and IBM Cloud infrastructures. Migrated from AWS to IBM Cloud with 40 seconds of downtime (**AWS CLI, Python, IBM, Sysadmin**)
· Fully automated the production pipeline, moving from a manual method and reducing the pipeline time from 10 days to 22 hours (**Django, Celery, Linux, Cloud Computing, monitoring**)
· Set up systems that guarantee security and data integrity while adhering to ISO 27001 standards

Senior Full Stack Engineer	**BigML**	**Dec 2021 - Mar 2023**

· Designed, trained and deployed multiple production-grade ML solutions, including a OCR model detecting and notifying real-time traffic toll prices from faulty signs and a traffic prediction tool to adjust toll prices in real time (**Lisp, Django, OpenCV, PHP**)
· Reduced query time from 30 to 1.5 seconds in legacy production code. Took charge of the code's maintenance, dependency upgrading and development of new features (**Django, bash, PHP, docker**)
· Designed and implemented a ranking system for Accushoot (**Django, Vue, GIT**)
· Synchronized a PostgreSQL and MongoDB database by cross-referencing them and the filesystem to identify and resolve out-of-sync objects (**MongoDB, Postgres**)
· Migrated production data from AWS buckets to GC buckets (**Amazon Web Services, Google Cloud**)

Telecommunications researcher	**IMDEA Networks**	**Sep 2016 - Dec 2021**

· Reverse-engineered firmware blobs of a embedded 60 GHz antenna from MikroTik routers to enable extra functionality (such as distance measurements), adapted the Linux drivers (**Ghidra, Python, ARC assembly, C, Linux Kernel**)
· Developed robust automation code to perform thousands of measurements with faulty hardware to compare our approach with off-the-shelve 60 GHz devices (**Python, MATLAB**)
· Worked closely with Huawei stakeholders to bring academic achievements to industry

LANGUAGES AND TECHNOLOGIES

· Skilled in Python, JavaScript and React. Work experience with SQL, R, Matlab, Java. Past Experience with C# and C++.
· Hands-on experience with AWS, Docker, Docker Compose, CI and CD systems (Gitlab CI/CD, GitHub), software lifetime management tools (e.g., JIRA), performance and profiling applications (perf, custom tools)
· English (fluent, C1); Spanish, Catalan (native)

EDUCATION

· PhD., M.Sc. in Telematics Engineering (Sep. 2016 - Dec. 2021)
· M.Sc. in Intelligent Systems (Sep. 2015 - Nov. 2016)
· B.S. in Computer Engineering (Sep. 2009 - Nov. 2015)
· B.S. in Computational Mathematics (Sep. 2009 - Nov. 2014)