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WORK EXPERIENCE

Principal Full Stack Engineer	**CoachHub**	**Nov 2024 - Present**

- Took leadership of the Senior Full Stack team, leading a team of 4 engineers and coordinating sprints and goals with my Project Manager (**Jira, Slack, Google Meet**)
- Reviewed the AWS CDK implementation reducing the cost by 30% while still meeting the expected system requirements (**CloudWatch, AWS lambdas, API Gateway, DynamoDB**)
- Lead the Microsoft Team chatbot project and a custom BFF, implementing cache systems and reducing tech debt resulting in a reduction on errors of 20% (as measured by AWS CloudWatch) (**CDK, node.js**)
- Implemented a notification system integrated with Slack for any exception that happens in any of our stages, with information about the problem, reducing the bug fixing time by hours (**Slack, node.js**)

Senior Full Stack Engineer	**CoachHub**	**May 2024 - Nov 2024**

- Designed and implemented scalable systems using AWS lambdas and DynamoDB, integrated in Microsoft Teams as a conversational chatbot (**React, AWS lambdas, node.js**)
- Implemented the microfrontend and a persistent state management for a conversational roleplaying AI chatbot (**React, AWS lambdas, node.js, xstate**)
- Improved current distributed systems by reducing tech debt and reducing time to answer from 15 seconds to 4 seconds (**CDK, AWS lambdas, API Gateway**)
- Wrote critical documentation that was missing from semi abandoned legacy products (**Confluence**)

Senior DevOps Engineer	**Beyond You**	**Mar 2023 - May 2024**

- 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, node.js, express.js and React. Work experience with SQL, R, Matlab, and Java. Experience with C# and C++.
- · Hands-on experience with AWS, Linux, Docker, OpenAI, CDK, CI/CD systems (Gitlab, GitHub), software lifetime management tools (e.g., JIRA), performance/profiling applications (perf, graphana, 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)