

# Darío Ríos Navarro

## Machine Learning Engineer | Full Stack Developer | Project Management | Web Accessibility Expert

Costa Rica

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## SUMMARY

Machine Learning Engineer focus in MLOps. Senior Full Stack Developer. Project Manager profile. Web Accessibility expert. Java Developer for fifteen years. Experienced with all stages of the development cycle for web projects and agile web development. Well-versed in numerous programming languages including Java, React, Python, PySpark, HTML5, PHP, JavaScript, CSS, MySQL, SQL Server, Oracle, etc. Strong background in project management, customer relations.

## EXPERIENCE

### Machine Learning Engineer (Stack Software engineer) 03/2023 - present

Western Union, Santa Ana, San José.

- Developing and deployment of models in UAT and production in AWS ECS Fargate services. Helping the decision scientist team with support of models created for risk management for India and Costa Rica.
- Helping the decision scientist team with support of models created for risk management for India and Costa Rica in a average of 5 models for month
- Migration of On prem servers to AWS in 100% for all the risk models on production
- Leading the migration of models to Dataiku with 95% of effectiveness

**Technologies applied:** Java, Python, PySpark, R, Cloudbees, Spinnaker, OpenSearch, Dynatrace, AWS Fargate, ECR, Dataiku

### Senior Full Stack Developer 12/2020 - 03/2023 Edify Software Consulting, Alajuela.

- Developing for front-end and back-end to clients in the United States, especially in systems related to educational and university technologies.
- Leading a project of highest value for the company and implementing new enhancement with 95% of successful

**Technologies applied:** React JS, Java, Spring, Spring security, Spring boot, Gradle, Hibernate, Spring JPA, PostgreSQL. AWS Terraform, flowable.

### Technical Consultor Lead – 01/2020 – 12/2020 Novacomp. San José.

- Work with a client of this company, in the development of security requirements for their web platform by analyzing and re implementing all the front-end and backend to login using the security platform provided.
- Implemented from scratch all the mobile application for the car tax registration (marchamo) for the client in a period of two months with no issues in production.

## SKILLS

- ✓ Project management
- ✓ Strong decision maker
- ✓ Complex problem solver
- ✓ Teamwork
- ✓ Auto – coaching
- ✓ Proactive and analytical
- ✓ Innovative
- ✓ Collaborative
- ✓ Fast learner.

## ACQUIRED KNOWLEDGE

- Artificial Intelligence
- Microservices
- Subversional Environments (SVN, Github, JIRA)
- Web accessibility knowledge (W3C)
- IT auditing knowledge
- Normative knowledge in: ITIL, SUGEf, COBIT, ISO 9000, ISO14000, ISO17799 and 27001.

## PROGRAMMING KNOWLEDGE

**Advanced:** Python, Android SDK – Medium Frameworks Java: Spring, Hibernate, JSF, J2EE, JSP, Servlets, Hibernate, Struts, C++, HTML 5, SQL Server, Oracle, MySQL, JMeter

**Intermediate:** React JS, Redux, Hooks, PySpark

**Technologies applied:** Java, struts 2, Hibernate, Thymeleaf, Spring, Spring boot, rest and soap services.

## ACADEMIC EXPERIENCE

**Tutor** – 02/2017 – present. **UNED**, San José.

Investigation of biometric software for anti-plagiarism in exams using IA face detection and IoT. Programming courses, Databases, Operations Research. Artificial Intelligence for information systems

**Technologies applied:** Python, OpenCV, Raspberry Pi and Flask Framework, MySQL, Oracle, SQL Server.

**Professor** – 06/2013 – present. **Universidad Nacional, Heredia**

Professor of the computer school. I have given courses like: Programming IV (Web Programming), Programming I, Programming II, Web Programming (Bachelor), Computing and Information Technology 2 (Service Course Survey School), Computer Science and SQL Programming (Service Course, Geography School). ICAI trainer (basic PHP, intermediate PHP, advanced PHP). Computer Systems course for administrators, Data Structures and Artificial Intelligence.

**Technologies applied:** Java, Jasper Reports, Visual Basic, C++, C# (.NET) y PHP con frameworks (Laravel y CakePHP), ATOM, bootstrap, jquery, NodeJS, Angular, JSON, JAX-RS, JAX-WS, Python, TensorFlow, Pytorch, OpenCV

## EDUCATION

- 05/2021 - 06/2022 Three points. Barcelona University. Artificial Intelligence Master Degree
- 02/2018 – 10/2020 Universidad Estatal a Distancia de Costa Rica. Teaching degree with an emphasis in Computer Science
- 01/2014 – 12/2014 Universidad para la cooperación internacional Project Manager Administration Master Degree (PMA).
- 02/2005 – 06/2012. Universidad Nacional, UNA Facultad de Ciencias Sociales, Escuela de administración Bachelor of Business Administration Degree
- 02/2007 - 11/2012. Universidad Nacional, UNA. Facultad de Ciencias Exactas, Escuela de Informática Information Systems Engineering degree.
- 01/2009 – 12/2009 Universidad de Costa Rica. Escuela de Administración de Negocios, Continuing Education Programs. Graduated in Information Technology audit technical course (ITAT).
- 02/2003 - 11/2007. Universidad Nacional, UNA. Facultad de Ciencias Exactas, Escuela de Informática Graduate in Computer Systems Engineering

## LANGUAGES

- Spanish – 100% native
- English – 95%

## CERTIFICATIONS

- AWS Certified Solutions Architect (2024)
- AWS Certified Developer (2023)
- SDKUNA Framework (2016). Given by IT Department in Universidad Nacional. As part of this training, now I am professor of the course too.
- Training in HTML5 (2013). Given by CENFOTEC in LAFISE Bank.
- Accessibility WCAG 2.0 (2016). Practical application course and web accessibility design. Given by SIDAR. Madrid, Spain.
- Advanced Java. Given by ICAI, UNA
- Coursera courses: Machine Learning (2012), Neural Networks for Machine Learning (2012), An Introduction to Interactive Programming in Python (2012)