Emilio Balda

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Summary

I'm a full-stack developer with a Ph.D. in machine learning, passionate about data science in complex interconnected systems. Solid mathematical and programming skills. 5+ years of experience building software and working on research projects with publications at well-known conferences and journals.

Currently building No-Code Software with aiXbrain to empower medium-sized businesses to benefit from the latest machine learning technology.

Main skills: Python, TensorFlow, FastAPI, Kubernetes, Google Cloud Platform (GCP), Typescript, and Vue.js.

Specialties: Machine Learning, Statistics, and Signal Processing.

Experience

Full Stack Developer
aiXbrain GmbH
Nov 2019 - Present (3 years 5 months)
I develop machine learning SaaS for industrial planning and scheduling problems.

PHD Student
RWTH Aachen University
Feb 2017 - Oct 2019 (2 years 9 months)
I worked as a Researcher PhD Candidate in the area of deep learning, with a focus on the generation and theoretical understanding of adversarial examples.

Research Assistant
Fraunhofer IIS
Jul 2015 - Nov 2016 (1 year 5 months)
Analyzed, classified and modeled the statistical behavior of the motion profiles for antennas mounted on various vehicles and landscapes.

Education

RWTH Aachen University
Doctor of Philosophy - PhD, Machine Learning
2017 - 2019

Technische Universität Ilmenau
Master's degree on Science of Communications and Signal Processing, Signal Processing and Communications

2014 - 2016

University of Navarra
Bachelor's degree in Telecommunication Systems Engineering, Telecommunications
Engineering
2010 - 2014

Skills

Tailwind CSS • SQLAlchemy • Helm Charts • FastAPI • Vue.js • JavaScript • Gitlab • Machine
Learning • Python • TensorFlow

Honors & Awards

Winner of the South American Youth Bridge Tournament - Confederación
Sudamericana de Bridge
May 2008
Our team won the 1st place in the Contract Bridge South American Championship that took place in
Córdova-Argentina 2008 on the age category "Under 21"

Winner of the Ecuadorian National Bridge Tournament - Federación Ecuatoriana
de Bridge
May 2010
Our team won the 1st place in the Contract Bridge National Championship of Ecuador 2010 on the age
category "Open for everybody"

Best student paper award - Asilomar Conference on Signals, Systems and
Computers
Oct 2018
Won the first place for the paper "On Generation of Adversarial Examples Using Convex Programming",
co-authored by Arash Behboodi and Rudolf Mathar.

Finalist of the Körber-Stiftung Study Award - Körber-Stiftung
Jun 2020
I was one of the 11 finalists for the award of Ph.D. Thesis with the most social impact.