

English (Fluent) | Spanish (Fluent) | French (Advanced) | Hebrew (Basic)

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«If I am not for myself, who will be for me? And since I am for myself: what am I becoming? And if not now, when?»

Summary.

I am an AI/ML Engineer with three years of experience in the field, and five years of prior experience as a Software Developer. My main career interests are: 1) R&D on Deep Learning, Machine Learning, Reinforcement Learning, Game Theory and Combinatorial Optimization; 2) delivering end-to-end AI/ML solutions to production, and effectively evolving and maintaining them using MLOps principles; 3) software engineering.

My human foundation is established in a commitment to ethical living, and it is powered by the desire to listen to the call to know and live by what is right and good.

Experience.

Cogniware s.r.o. Praque, Czechia

ARTIFICIAL INTELLIGENCE RESEARCHER AND DEVELOPER

Anr 2020 - Present

- Lead Artificial Intelligence Researcher and Developer since October 2021.
- Responsibilities: Taking research outputs to production; pursuing an increased maturity of AI/ML projects (training pipelines, adoption of MLOps, serving); AI/ML theory research (documenting, prototyping, data analysis, error analysis); AI/ML technologies research; mentoring.
- Topics: Deep Learning (attention-based models, GANs, self-supervised learning...); Machine Learning (Random Forests, NMF, SVD...); Social Networks Analysis (homogeneous/heterogeneous networks, community detection); Computer Vision (object detection and tracking, pedestrian attribute recognition, facial transformations); Fake News Detection (user interactions graph, NLP...); Anomaly Detection in Graphs.
- Technologies: PyTorch, TorchServe, Captum, PyTorch Ignite, Ax, Albumentations, Einops, MLflow, Scikit-learn, Hummingbird.

Czech Technical University in Prague (CTU)

Prague, Czechia

ARTIFICIAL INTELLIGENCE RESEARCHER AND DEVELOPER

Sep 2019 - Apr 2020

Algorithmic Game Theory and Machine Learning research; Integrating Deep Learning into Combinatorial Optimization algorithms.

Intellisys D. Corp Santiago, Dominican Republic

SOFTWARE DEVELOPER

Aug 2014 - Mar 2020

- Responsibilities: Full Stack; Senior level from Aug 2015; Design of training programs; Mentoring; Microservices; AB testing; Data migrations.
- Technologies: Webpack; nodejs; php; TypeScript; React; JavaScript ES6; HTML; CSS; Google AMP; Chrome Extensions.

Mother and Teacher Pontifical Catholic University (PUCMM)

Santiago, Dominican Republic

RESEARCH ASSISTANT Aug 2012 - Jun 2013

Education

Czech Technical University in Prague (CTU)

Prague, Czechia

DOCTOR OF PHILOSOPHY - PHD: COMPUTER SCIENCE, UNFINISHED

2019 - 2020

• Topics: Deep Learning; Deep Reinforcement Learning; Algorithmic Game Theory; Multi-agent Systems.

Czech Technical University in Prague (CTU)

Prague, Czechia 2017 - 2019

MASTER OF ENGINEERING - ME: ARTIFICIAL INTELLIGENCE, 1.49 CZ GPA (3.38 US GPA)

• Topics: Statistical Data Analysis; Pattern Recognition and Machine Learning; Statistical Machine Learning; Symbolic Machine Learning; Probabilistic Graphical Models; Theory of Algorithms; Advanced Algorithms; Combinatorial Optimization; Graph Theory; Algorithmic Game Theory; Multi-agent Systems; Planning for Artificial Intelligence; Logical Reasoning and Programming; Artificial Intelligence in Robotics.

Mother and Teacher Pontifical Catholic University (PUCMM)

Santiago, Dominican Republic

BACHELOR OF ENGINEERING - BE: ELECTRONICS AND AUTOMATION, 3.8 US GPA

2008 - 2013

• Topics: Embedded Systems; Power Electronics; Linear Control Theory; Biomedical Electronics; Linear Systems Analysis; Instrumentation.

Complementary Education.

Coursera (DeepLearning.AI)

Online

MACHINE LEARNING ENGINEERING FOR PRODUCTION (MLOPS) SPECIALIZATION

2021

• Topics: Data/Model/Deployment Pipelines; Managing ML Production Systems; Project Scoping and Design; Concept Drift; ML Metadata; Data Transformations/Validation; Fairness Indicators; Explainable AI; Baselines; Performance Analysis; Monitoring; ML Engineering for Production.

Udacity Online

COMPUTER VISION NANODEGREE

• Topics: Image Recognition and Segmentation; CNNs/RNNs; Object Detection (YOLO, Faster R-CNN); Image Captioning; Object Motion and Tracking (motion models, video analysis); Optical Flow and Feature Matching; Robot Localization (Bayesian statistics); Graph SLAM.