

JONATHAN TU NGUYEN

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 GitHub ·  LinkedIn ·  Blog ·  Kaggle ·  Portfolio

WORK EXPERIENCE

CARREFOUR

Lead Machine Learning Engineer

Paris, France
Feb 2024 - Present

- Boosted the company’s revenue by a targeted 2% by developing and deploying a **deep learning computer vision system** that detects and tracks fraud at scale across Europe for more than **1,000 self-checkout registers**.
- Established best practices for machine learning system design and reproducibility, reducing the ML deployment cycle from **3 weeks to 1 day** by building a Vertex AI-based MLOps platform that automates the end-to-end ML pipeline.
- Deployed a deep learning-based people-counting system for real-time queue monitoring across retail stores, enabling data-driven staffing decisions and improving customer experience.
- Led a team of 3 ML engineers, driving the delivery of high-impact AI solutions through cross-functional collaboration.

JOVYANAI

Cofounder - CTO

Paris, France
Dec 2024 - Dec 2025

A startup AI co-pilot for data science and machine learning.

- Built an AI-powered copilot that automates data science and machine learning workflows, delivering intelligent code assistance and faster experimentation, contributing to €2,000 in monthly recurring revenue (MRR).
- Led the design and implementation of a scalable full-stack LLM system on Google Cloud, incorporating RAG pipelines and multi-agent architectures with Next.js, TypeScript, Python, and database integrations.

DOPIKAI

Lead Machine Learning Engineer

Paris, France
Jan 2022 - Dec 2024

A startup providing innovative AI solutions at scale for the Vietnamese market.

- Delivered a production-grade Facebook Messenger chatbot utilizing advanced RAG techniques and text-to-SQL to provide accurate, context-aware apartment rental responses at a scale of 1,000+ user requests per day.
- Provide on-premise deep learning solutions for extracting relevant information for Vietnamese documents

VOODOO

Senior Machine Learning Engineer

Paris, France
Dec 2021 - Jan 2024

A unicorn tech company that creates mobile games and apps with 6 billion downloads, over 400 million monthly active users, and more than 1 billion individual players.

- Build an **Ad Network** from scratch, an intermediary between advertisers, who are looking to place their ad in another app and publishers who has many apps running, which generates 1 million revenue per month
- Build and deploy machine learning models and recommendation system at scale in Real Time Bidding for more than 100.000 impressions per second, over 40 million daily active users
- Improved operational manual bidding process by more than 60% by implementing machine learning algorithms to automatically predict quickly and efficiently users’ life-time value, install volumes and margins.
- Build a bidding system that fully automates User Acquisition bidding on mobile Ad networks platforms for more than 200 games and a \$100 million annual budget.
- Build an internal LLM Slackbot that answers employee requests for internal or external information

BNP PARIBAS CARDIF

Senior Machine Learning Engineer

Paris, France
Dec 2020 - Dec 2021

- Machine Learning Lead** on Speech Recognition R&D : Recognize and translate three spoken language into text (Spanish, Italian, French)
- Reduced operational cost and the quantity of audited calls by 50% by implementing speech recognition and text audit algorithm, from end-to-end data annotation to model training
- Built Deep Learning models on very limited internal data with state-of-the-art unsupervised algorithms in speech recognition to obtain very low word error rate (below 15%)
- Managed an intern and AI resident for a R&D of unsupervised & self-supervised learning on Speech Recognition.

Machine Learning Engineer

Apr 2018 - Dec 2020

- Reduced time and operational cost to extract relevant information by 60% by implementing scalable, production-ready extraction machine learning pipeline.
- Detected layout and words of text by using state-of-the-art algorithms in object detection and text detection.
- Implemented in-house models to recognize and extract text with a very low word error rate (below 5%).
- Managed Docker environment, API, CI/CD pipeline for the product deployment.

EDUCATION

Paris Dauphine University

M.S.E in Financial Engineer

Paris, France
Sep 2014 - Sep 2018

Paris Nanterre La Defense University

Economics and Management - Top 2 with Highest Honor (Undergraduate)

Paris, France
Sep 2012 - July 2014

SKILLS

Computer Science:	Data Structures & Algorithms, Statistical Machine learning, Deep learning
Programming languages:	Python, Pytorch, Tensorflow, Keras, Scala, SQL, JavaScript, Typescript
BigData toolset:	Spark, Postgres, Elastic Search, AWS, GCP, Tableau, DBT, Kafka
MLOps:	Jenkins, Kubernetes, MLFlow, Terraform, Docker, AirFlow, AWS Lambda, AWS SageMaker

AWARDS & PUBLICATIONS

Gold Medal - Kaggle Machine Learning Competition (~3K participants)

USA

Predict the magnetic interaction between atoms in a molecule.

2020

Bronze Medal - Vietnam National Mathematics Olympiad (~1K contestants)

Vietnam

Biggest national mathematical competition for high school students.

2010

Research Paper: Machine learning strategy to find NMR property prediction models. Accepted at PLOS ONE - a high ranked journal on science and medicine.