

VATOSOA Mananjara **Jimmy**

ACHINE LEARNING · ENGINEER

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"Nothing is out of reach, as long as you just sit down and take the time to read from the beginning." - Life lesson.

Summary.

I have acquired a solid understanding and hands-on experience in Cloud computing and Machine Learning throughout my academic and internship journey. I love crafting technological solutions in my spare time to upgrade my own neural networks, like the Euro coin recognizer for my coin collection. I am seeking a role and opportunity from which I can learn and grow, while showcasing my know-how.

Experience and Projects

SERMA Safety and Sercurity - SERMA GROUP

Rennes, France

MACHINE LEARNING ENGINEER - INTERN

Feb. 2024 - Aug. 2024

May. 2023 - Sep. 2023

2022 - Now

- I developed a PCB components detector Model and reference extraction with Yolov, EasyOCR and Idefics2.
- $\bullet \ \ \text{I customized the Neural-based Decompiler Framework (N-Bref) from the Meta FAIR in order to apply it to reverse engineering .}$
- I built a fully automated CI/CD pipelines from a self-hosted gitlab to a local cluster Machine using K8s and Ansible.
- This innovative solution helped reducing the overall time spent by hardware pentester thorough security assessments.

IMT Atlantique. Rennes, FRANCE

RESEARCH ASSISTANT - INTERN / TEAM: ADOPNET

Topic: Energy Efficient Mobile Network in France.

We developed 3 strategies to save energy for different scenarios, based few key factors and improved the EARTH Model.

- I Acquired and Prepared data (ETL with PowerBI) from ANFR and used Queue Learning for future traffic load adaptation.
- I Applied the approach to real traffic Load data in Rennes, FRANCE and were able to save up to 20% of energy.

RECENT PROJECT (Masters)

Rennes, FRANCE

- -Personal Project 2: System Architecture Design and Deployment of the superapp azplus.mg based in Madagascar.
- -PERSONAL PROJECT 1: EURO COIN RECOGNIZER USING COMPUTER VISION ON MOBILE, FOR COIN COLLECTION PURPOSE (1€, 2€).
- -MASTER 2: NOISE PROCESSING WITH RASPBERRY PI TO PREDICT QUEUES, CLOUD-BASED SPEECH TO TRANSCRIPT USING NLP.
- -MASTER 1: MINI TEXT EDITOR, 5G ANTENNA SCHEDULER SIMULATION, INSTACART DATA MINING.

Videotron Inc. Quebec Cairo, EGYPT

• I was responsible of the Anti-virus, AWS S3 Backup recovery, Network maintenance. Escalate major cases to Engineering team.

I trained new agent on new techno.

Education

IT SUPPORT AND TRAINER

University of Rennes & EIT Digital Master School (Taught in English)

Rennes, FRANCE Sept. 2022 - Aug. 2024

M.Sc in Cloud and Network Infrastructure, Minor: Innovation and Entrepreneurship (INTERNATIONAL)

- · Main topic: Smartcity Services, Bigdata, Distributed Systems, Service Technology, Advanced Cloud Infra., Fog Computing
- Grade: Good.

Faculty of Computers and AI - Cairo University (Taught in English)

Cairo, EGYPT

B.Sc. in Artificial Intelligence, Minor: Information Systems

Sep. 2016 - Aug. 2020

- Grade : Very Good.
- · Secured a mixed Egyptian and Malagasy Government Scholarship for outstanding grades.

Extracurricular Activity and Interest

ELTE UNIVERSITY | INFORMATIKAI KAR | Title: Democratize the use of technology

Budapest, HUNGARY

SUMMER CLASS WITH ERASMUS+ (SCHOLARSHIP)

JUII. 2023 . 2 W

- The ability to showcase my engineering background through an innovative project (V2V Grids), followed by and engaging pitch
- Grade: Excellent
- Core Value : Leadership, teamwork, pitching, innovation, technology watch, Project Management.

SKILLS AND INTERESTS

A READER, A BIKER AND AI ENTHUSIAST

- · Soft Skills: Leadership, Teamwork, commitment, Problem-solving, Documentation, Engaging Presentation, Article writing.
- Certificates: Deep Learning with Pytorch, ML Pipeline with Azure ML, Dataviz using Plotly
- Programming Language: Python, Java, SQL(PostgreSQL).
- Miscellaneous: Docker, Git, Kubernetes, GCP, AWS, Shell(Bash), Microservices, RestAPI
- Language: English(C1 IELTS: 7.5), French(C1), Malagasy(Native).

Jun. 2023 : 2 Weeks