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EDUCATION

University at Buffalo, New York

2025

Master of Science in Operation Research

Grande Ecole ECAM, Paris

2020

Master of Engineering

PROJECTS

Multiple Listing in Kidney Transplant Program (Ongoing Master's Thesis)

2025

Research conducted under the supervision of Dr. Prashant Sankaran in the O'AIR lab at the University at Buffalo.

- A research on the multiple listing's impact on the waiting list for kidney transplant candidates.
- Technology Used: Python, SAS, Machine Learning.

Alice AI - UB Hackaton 2nd Place

2024

A web application that offers real-time AI chat, an Alice in Wonderland-inspired chatbot, and an integrated 3D map.

- Project developed in 24 hours for the UB Hacking's Fall Hackathon.
- Technology Used: Python, AWS Lex, Mapbox, Google API.

EXPERIENCE

French Federation of Football (F.F.F) / Omnilog

February - August 2024

Software Engineer

- Refactor the main codebase of the French Soccer League's application by improving the source code quality and optimizing performance, utilizing Python, FastAPI, Angular, MongoDB, PostgreSQL and Azure Cloud.
- Code reviews, profiling and pair programming within a 10-member team in an agile environment with CI/CD.
- Hands-on experience in large scale cloud infrastructure provisioning, monitoring, and automation using Azure Cloud and Kubernetes.

Mobifret Transport & Logistic

Sep 2020 - Dec 2023

Software Engineer

- Developed Transport & Logistics solutions for clients : Maisons du Monde, Fnac/Darty, DPD, Amazon, Groupe La Poste.
- Enhancing efficiency in delivery rounds with stochastic demands (500+ daily) CVRPTW, optimizing warehouse storage and minimizing operational costs.
- Designed, prototyped and developed a Freight-Broker application with global team (France/India) in microservices architecture, using AWS EC2, Lambda, S3, Python FastAPI, ReactJS, Docker.
- Reduced order preparation by 40% by designing new routes picking routes based on data-analysis with Python & Pandas.

SKILLS

Languages: Python, Javascript, C++, R, HTML+CSS

Frameworks: Flask, FastAPI, ReactJS, NextJS, Angular

Tools: Docker, Kubernetes, Redis

Cloud/Databases: AWS, Azure Cloud, MongoDB, PostgreSQL, Firebase

Softwares: SAS, Jira, Confluence

Relevant Coursework: Data Structures & Algorithms, Object Oriented Programming, Machine Learning, Deep Learning, Linear Programming, Stochastic Processes.

CERTIFICATES

Certificate of Professional Competence (CPC) in Road Haulage AFTRAL CNAM, Paris

2019

- Obtained by passing an official exam organized by the French Ministry of Transport. It covers topics like transport regulations, social and labor law, and business management.
- Demonstrates knowledge in key areas such as transport law, safety regulations, business management, and financial management.