





IDRISS DJIOFACK TELEDJIEU

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Education

University of Colorado Boulder

Aug. 2023 – May 2025 (Expected)

Masters of Science in Computer Science

Xidian University

Sep. 2019 – July 2023

Bachelor of Science in Computer Science and Technology

GPA: 3.9/4.0

Technical & Soft Skills

Programming Languages: Python, JavaScript, TypeScript, C, MySQL, HTML/CSS.

Technologies & Tools: Linux, Flask, FastAPI, Docker, Kubernetes, PyTorch, Keras, RabbitMQ, Heroku, GitHub, React-Native, Django

Experience

Machine Learning Engineer Co-op

Sep. 2022 – Aug. 2023

BRAIN Lab

Xi'an, China

- Spearheaded the data acquisition and pre-processing phases, devising and implementing a random forest regression model as part of an interdisciplinary team, resulting in the publication of a paper on WEEE estimation in the Journal of Management Science and Engineering Research. [Article LINK](#)
- Orchestrated end-to-end machine learning pipeline from conceptualization to model evaluation, utilizing general equilibrium theory to inform feature extraction, significantly advancing the accuracy of e-waste predictions for ISO 14001:2015 certified SMEs.

Founding Engineer

Dec. 2022 – Aug. 2023

Groupe Univers

Remote

- Engineered a sophisticated, user-centric mobile application for Online Laundry using React Native Expo, expertly navigating state management complexities with Redux and securing user authentication through Firebase, leading to its successful launch on both PlayStore and AppStore.
- Pioneered the app's front-end architecture, meticulously incorporating Redux for state management, to craft a cross-platform solution that significantly improved user experience and system efficiency.

Software Engineer Intern

Jun. 2022 – Sep. 2022

Anhui Huaertai Chemical

Chizhou, China

- Developed and optimized a scalable backend system using DjangoRF, integrating advanced query optimization techniques in SQL to enhance the performance and efficiency of the company's chemical inventory tracking application. This resulted in a significant reduction in data retrieval times by 40%, leading to a more responsive user experience and facilitating quicker decision-making processes for inventory management.

Projects

Video to MP3 File Conversion Application

Nov. 2023

- Developed a microservice architecture using Flask, RabbitMQ, Docker, and Kubernetes for a video file conversion application.
- Implemented user authentication and token-based access control to ensure secure usage of the application.
- Utilized Docker for containerization and Kubernetes for orchestration to enable scalability and fault tolerance.
- Integrated RabbitMQ for asynchronous message queuing, ensuring efficient processing of video conversion tasks.

Portal Search Engine

Oct. 2023

- Developed the server for a web portal utilizing FastAPI and AWS Lambda. Implemented URL filtering and web crawling processes, retrieving content from user queries through SerpAPI.
- Employed AWS Cohere models for link re-ranking based on persistence and utilized the Claude Model from AWS to summarize the content of retrieved URLs.

Potato Disease Classification

Mar. 2022

- Utilized **TensorFlow**, and **Convolutional Neural Network (CNN)** architecture to develop a high-performance model capable of accurately categorizing potato diseases.
- Managed the entire process, from data cleaning to CNN model building. Implemented **FastAPI** to create an interactive interface for real-time classification, offering users seamless disease identification.

Leadership / Extracurricular

- French Instructor in the Department of French and Italian of the University of Colorado Boulder.
- Awarded the Best Performance Team of the Tsinghua Global Summer School 2021.
- Covid-19 Campus Volunteer (Dec 2021 - Feb 2022).