

Idriss Djiofack Teledjieu

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Skills

- Python | Java | JavaScript | TypeScript | C++ | C | MongoDB | PostgreSQL | PyTorch | Express | React | NodeJs | Redux | NoSQL | Git
- AWS | Cloud Computing | CI/CD | Jenkins | Kubernetes | Docker | Redis | Kafka | RabbitMQ | OOP | Django | Flask | PostgreSQL
- Microservices | Distributed Systems | Frontend | Backend | NLP | English, French, Chinese – All professional proficiency or above

Experience

Software Engineer co-op WalletGyde *Denver, CO* **08/2024 - Current**

- Designed and implemented a robust matching algorithm using Flask to connect users with financial coaches based on personalized preferences, improving match accuracy and user satisfaction.
- Optimized the data migration process to ensure seamless integration with the matching system, while conducting detailed code reviews to maintain code quality and mentor team members on best practices.

Graduate Researcher (AI & Robotics) HIRO Lab, CU Boulder *Boulder, CO* **01/2024 - Current**

- Deployed and evaluated the pretrained Octo model in a simulated gym environment, testing robotic task execution such as pick-and-place without additional model fine-tuning.
- Developed and integrated a simulation environment to test robotic policies using Value Iteration, optimizing task execution like navigation based on reward weights.
- Deployed a Docker-based server for team access to local geographical maps via API, improving workflow efficiency by 90%.
- Engineered dynamic environment adaptation by adjusting parameters like travel times to enhance trajectory diversity for reward-based policy optimization.

Software Development Engineer Groupe Univers *Xian, China* **09/2021 - 08/2023**

- Optimized backend services using Docker and Kubernetes, improving deployment efficiency by 35% and ensuring high availability and fault tolerance across all services.
- Implemented a secure user authentication system using JWT and orchestrated event-driven architecture with Kafka, ensuring 99.9% uptime and enhancing scalability by 20%.
- Migrated 1,500+ users from Firebase to PostgreSQL for a new backend based on microservices, enhancing backend performance by 25% and reducing data retrieval times by 30%.

Software Engineer Intern Anhui Huertai Chemical *Anhui, China* **06/2020 - 09/2021**

- Engineered a high-performance Django backend for a chemical inventory tracking application, leveraging advanced SQL query optimization to enhance system efficiency and boost application responsiveness by 40%.
- Achieved a 40% reduction in data retrieval times, markedly improving user experience and enabling faster, more effective inventory management decisions.

Education

Master of Science University of Colorado Boulder *Boulder, CO* **08/2023 - 05/2025**

- Major in Computer Science

Bachelor of Science Xidian University *Xian, China* **08/2019 - 07/2023**

- Major in Computer Science

Projects

TICKETS WEB APPLICATION

- Architected and developed a scalable, microservices-based tickets web application using NodeJS, ExpressJS, and MongoDB, ensuring high availability and fault tolerance.
- Implemented a custom event bus for asynchronous communication between services, resolving data consistency issues and ensuring reliable event delivery across distributed systems.
- Containerized the application using Docker and orchestrated deployment with Kubernetes, enhancing scalability and fault tolerance, and simplifying the CI/CD pipeline for rapid iteration.

SPEECH EMOTION AND ANALYSIS PLATFORM

- Developed a high-accuracy speech recognition model using Convolutional Neural Networks (CNN), achieving 94% classification accuracy, and built a user-friendly React web application for interaction.
- Engineered a comprehensive deployment pipeline with a FastAPI REST API and Docker container, ensuring seamless deployment on AWS EC2.