

Muhammed Yusuf Dada

Software Engineer | Kingston, ON, Canada | Mobile : 289-244-4108

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Authorized to work in Canada for any employer, Open to relocate

Website: <https://muhammedyusuf678.github.io>

Summary: Full-stack Software Engineer proficient in Python and Javascript based stacks. I've enhanced established codebases and also built scalable solutions from scratch in domains ranging from business management software to climate tech. Dedicated to leveraging technology to create accessible solutions, driven by company objectives, while monitoring success through data-driven techniques.

SKILLS

Programming Languages: Proficient in **Python, Javascript, SQL**. Some experience in Java, Ruby

Full Stack Development: Proficient in **React, NodeJS/Express, Django, PostgreSQL, MongoDB, AWS**

Machine Learning: **NLP techniques, LLM Fine-Tuning, RAG, Langchain**, Data Science Tool Kit, Tensorflow, Scikit-learn

Other: **Linux, Docker, Git, Testing**

EXPERIENCE

Queen's University

Kingston, ON, Canada

AI Research Assistant

Sept 2023 – Aug 2024

- **LoRA fine-tuned open-source large language models (LLM)** to generate performance-improving code-edits for **Python** and **C++**. Achieved code optimization of 70% of samples, runtime reduction of up to 78% and 3x speed up.
- Utilized model alignment and natural language processing (NLP) techniques to assess nationality bias and privacy leakage in open-source LLMs creating a benchmark for guiding integration decisions in AI-based software systems.

Global Changer

Berlin, Germany

AI Software Engineer

Mar 2023 – Aug 2023

- Introduced **LLM-based pipeline** to automatically generate economic codes based on client production factors for carbon auditing **improving platform onboarding time for new business users by 80% in typical cases**.
- Developed Carbon Accounting module and CO2 emissions estimator for companies to analyze and report their carbon footprint to remain compliant with new EU regulations in agile sprints (Tools: **Vue.js, Ruby on Rails, Docker**).

Odoo

Dubai, United Arab Emirates

Software Engineer

Apr 2021 – Sept 2022

- Developed modules to grow Odoo's PaaS and SaaS platform across multiple enterprise application verticals including Inventory, E-Commerce, HR, Accounting, Sales and Manufacturing (Tools: **Django, Javascript**).
- Automated consignment and commission-on-sale accounting flows reducing manual reconciliation by 100%.
- Integrated Google Maps and reverse geocoding into CRM application and connected inventory management with regional shipping providers thereby reducing the number of clicks in the global process flow by 70%.

APCO Worldwide

Dubai, United Arab Emirates

Software & ML Engineer

May 2020 – Apr 2021

- Performed Topic Modelling and Named Entity Recognition with contextual embeddings on 50k+ tweets mined (**word2vec, LDA, BERT, GPT**).
- Created a bot automating client social perception report generation based on clients' social media and KPIs. **Costs reduced from 2 days manual work to 5 minutes automated** (Tools: Python, Selenium, Snowflake).
- Built data analytics and visualization applications from the ground up based on NLP data for numerous big pharma clients allowing for custom drill-down analysis of insights (Tools: **React, Django, PostgreSQL, Docker, Vercel, AWS**).

Delivery Hero

Dubai, United Arab Emirates

Software Engineering Intern

May 2019 - Sept 2019

- Developed a dashboard app using React.js, Redux & Auth0 to report the results of automated data-integrity checks

EDUCATION

Queen's University

Kingston, ON, Canada

Master of Science, Computer Science. GPA: 4.0. Awarded NSERC CREATE scholarship

Sept 2023 - Aug 2024

American University of Sharjah (AUS)

Sharjah, United Arab Emirates

Bachelor of Science, Computer Science. CGPA: 3.77 Magna Cum Laude Honors. Chancellor's List Scholarship

Aug 2016 – May 2020