

Alex Mboutchouang

Python Developer | AI, Data Engineering & Azure

Hannover, Germany

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Profile

Python developer and IT consultant with professional Python experience since 2020, using Python since 2015. Builds AI applications, APIs and process automation on Azure, with experience in data preparation, SQL, database design and system integration. Combines pandas and NumPy knowledge with independent full-stack development and deployment on Linux.

Core Technical Skills

Programming: Python, TypeScript, SQL

Data Processing: pandas, NumPy, PostgreSQL, data preparation, database design, data synchronisation

AI and Machine Learning: Azure OpenAI, Azure AI Document Intelligence, Azure Foundry, Transformers, BERT, Haystack, PyTorch, TensorFlow

Azure: Azure Functions, Azure Storage, Azure web services

Backend and Web: FastAPI, Django, Flask, Next.js, Vue.js

Automation: Power Platform, Power Automate, n8n, Robotic Process Automation (RPA)

DevOps: Linux, Git, GitHub, GitHub Actions, Azure DevOps, CI/CD, Ansible, Docker, Docker Swarm, Traefik, NGINX

Engineering Practices: Automated testing, API design, async Python, monitoring, logging, authentication

Professional Experience

IT Consultant

IT-P GmbH | Mar 2023 - present

- **Quotation automation:** Developed AI-assisted manufacturing quotation processes using Python, FastAPI, Azure, Azure Foundry and Power Automate.
- **Order capture:** Developed an AI-based MVP using Python, Azure Functions, pandas, NumPy and Power Automate.
- **Data integration:** Designed and implemented n8n workflows for automated synchronisation between two systems.
- **Results and collaboration:** Reduced manual effort and improved service quality and reliability through automation; contributed to technical decisions.

Earlier Experience

Working Student in Process Automation

IT-P GmbH | Apr 2022 - Feb 2023

- Contributed to software development, robotic process automation, SharePoint development and Power Platform solutions.

Full-stack Web Developer

Sneo GmbH | Sep 2020 - Feb 2022

- Developed web applications with Flask and Vue.js and implemented automation and scripting tasks in Python.
- Contributed to CI/CD pipelines for web development.

Personal Project

Scoreboards

Solo Developer | 2024 - present

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- Independently built a Cameroonian football platform using Django, PostgreSQL and Next.js, developing both backend and frontend.
- Deployed the application on Linux using GitHub Actions, Docker, Docker Swarm, Traefik and NGINX for deployment and operations.

Education

Master of Science in Computer Science

Leibniz University Hannover | 2019 - Dec 2022

Focus: machine learning, artificial intelligence and data mining.

Master's thesis: Pre-Training for Non-English Neural Retrieval Models (May - Nov 2022)

Worked on pre-training non-English neural retrieval models and preparing training data using Python, Transformers, BERT and Haystack.

Bachelor in Computer Science

African Institute of Computer Science | 2013 - 2016

Focus: networking, systems and programming.

Certifications and Languages

Microsoft Certified: Azure AI Engineer Associate

Microsoft Certified: Azure Administrator Associate

Microsoft Azure AZ-900, AI-900

Languages: French: native | German: C1 | English: B2