

Yaounde, Cameroon
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TOBI OBADIAH

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SKILLS

- C++, C, Python, Java, OCaml, JavaScript, TypeScript, React.js, Vue.js, Git, Cmake, MySQL, PyTest, DRF
- Qt, Django, PySide, PyTorch, Pandas, Keras, OpenCV, GTest, Numpy, C++ Boost, STL, Qml, Bootstrap
- Microservices, Agile Process, Serverless, Docker, Linux, AWS, Cloud Computing, CI/CD, Code Testing

EXPERIENCE

Tech Lead Software Engineer HANDY SERVICES Yaounde, Cameroon 2021 – present

- Developed and deployed web app and microservices using **Django**, **Django Rest Framework** and **VueJs**.
- Implemented and launched scalable payment APIs integrated with leading third-party Mobile Money payment processors (ISPs) including **MTN** and **Orange**.
- Set up **CI/CD** pipeline from **Gitlab** to production environments on **AWS** enabling automated real-time load balancing, Unit/Integration Testing and Cloud logs. Improved error tracking and logging in all fronts.

Machine Learning Engineer Mboa Digital Yaounde, Cameroon 2020 – 2021

- Oversaw team development of in-house software products and serverless microservices using **React**, **AWS Lambda**, **TypeScript** and **Docker** following Agile development methodology as a scrum master.
- Implemented and deployed **machine learning models** enabling automated reconciliation of bank statements and invoices. Improved model accuracy beyond acceptable production benchmark of 90% accuracy.
- Set up CI/CD pipelines for AWS **Lambda** functions using **Zappa** and **CloudFormation**. Integrated real-time monitoring with **New Relic** and CloudWatch which improved early error detection or outage by 30%.

Software and AI Engineer Artificial & Engineering Buea, Cameroon 2019 - 2020

- Developed enterprise-grade transport application using **C++14**, **Qt**, and **MySQL** database mindful of transport latency and memory usage. Implemented automated build and testing with **Cmake** and **Bash**.
- Implemented unit, integration, white-box, black-box and mock tests using **Google's GTest** C++ library to rigorously test systems functions which accelerated their validation and deployment to production by 50%.
- Orchestrated an internal tool that simplified analyzing, organizing and presenting insights from surveys using **Python**, **PySide** and **Machine learning** used in the marketing department.

Software Developer Fiverr Remote 2018 - 2020

- Collaborated with various clients from 6 continents and across multiple sectors including transport, entertainment. Ensured 100% client satisfaction and repeated client service requests with 30+ 5-star reviews.

EDUCATION

Bachelor of Science in Computer Science University of Buea Buea, Cameroon 2015 - 2019

Relevant Courses: Data Structures, Algorithms, Artificial Intelligence, Functional Programming, OOP,

GPA: 3.12/4.0 Discrete Mathematics, Database Design, Computer Architecture, Process Algebra

Deep Reinforcement Learning for Enterprise Udacity 2019

Program covered: Value-Based Methods, MDP, Monte Carlo Methods, Policy-Based Methods, PyTorch

[certificate](#) Multi-Agent RL, Deep-Q Networks, Actor-Critic Methods, Python, C++

Deep Learning Nanodegree Udacity 2019

Program covered: Artificial Neural Networks, Computer vision, Natural language processing, PyTorch

[certificate](#) Linear Algebra Multilayer Perceptron, Amazon SageMaker, CNN, RNN, LSTM, Python

PROJECTS

Sentiment Analysis (Udacity Deep Learning Project)

- Analyze sentiments of movie reviews using **Artificial Intelligence**. [Try it on website](#). [github](#).

Collaboration and Competition (Udacity Deep Reinforcement Learning for Enterprise Project)

- AI agents trained to play tennis in **Unity 3D environment** using reinforcement learning [github](#)

Handy (Open Source)

- A data structure and utility library developed using **C**, strictly tested for memory leaks with Valgrind [github](#)