

# UMAR FARUK ABDULLAHI

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## EDUCATION

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### **Åbo Akademi University, Turku, Finland.**

**Aug. 2023 - Date**

*Master of Science in Engineering of Intelligent Software Systems (EDISS) - CGPA (5/5)*

- **Relevant coursework:** Data Science, Machine Learning, Artificial Intelligence, Internet-of-Things, Embedded AI, Computer Vision and Sensor Fusion, Parallel & GPU Programming, Cloud Computing.

### **Ahmadu Bello University, Zaria, Nigeria.**

**Oct. 2015 - Feb. 2020**

*Bachelor of Science in Computer Science - CGPA (4.72/5.00)*

- **Relevant coursework:** Algorithms and Data Structures, Object Oriented Programming, Software Engineering, Computer Architecture, Operating Systems, Web Engineering, Communications and Networks, Database Systems.

## EXPERIENCE

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### **AILiveSim, Helsinki, Finland**

#### **- ML Research Intern (Computer Vision)**

**Oct. 2023 - Feb 2024**

- Conducted in-depth research on cutting-edge out-of-distribution object detection models and key performance metrics.
- Curated and annotated real and simulated datasets for model training.
- Trained variations of object detection models for out-of-distribution detection in maritime environments with mAP of ~92%.

*Skills used: Python, Tensorflow, Keras, Git/GitHub, Numpy, Pandas, Matplotlib*

### **Mercurie Inc, Lagos, Nigeria**

#### **- Lead Software Engineer (Adpay)**

**Nov. 2021 - July. 2023**

- Led the development of 2 microservices in Go and Python for automating ads across platforms with more than \$6 million in revenue.
- Orchestrated the deployment of API specifications and gateways for both microservices, utilizing API Gateway and Cloud Load Balancing on Google Cloud.

*Skills used: Go, Python, JavaScript, gRPC, REST APIs, Google Cloud, Vue.js, Firebase, Linux*

### **Yusuf Maitama Sule University, Kano, Nigeria**

#### **-Teaching Assistant**

**Nov. 2021 - Oct. 2021**

- Instructed undergraduate courses in Computing and Programming in C++ in the first and second semesters, while also assisting as an Lab Instructor for the Digital Electronics and NetCentric Computing courses.
- Initiated the creation of a comprehensive eLibrary system for the Department of Computer Science and contributed as a technical committee member for the enhancement and redesign of the institution's student and staff portal.

*Skills used: Scientific Communication, C++, Python, Linux, PHP*

## TECHNICAL SKILLS

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**Languages:** Python, Go, Java, C/C++, JavaScript, CUDA, SQL

**Frameworks:** Tensorflow, Keras, PyTorch, Scikit-Learn, Flutter, React

**Cloud Technologies:** GCP, AWS, Heroku, Docker, Kubernetes

**Databases and tools:** Firebase, MySQL, PostgreSQL, MongoDB, Git/GitHub

## PROJECTS

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### **Deep Learning for Parkinson's Biomarker Discovery [Ongoing]**

**Sep. 2023 - Date**

- Ongoing research project in collaboration with BioCity Turku on utilizing state-of-the-art deep learning techniques for detection of biomarkers for Parkinson's disease using Proteomics data.

### **Cosmic Dark Matter**

**Sep. 2023 - Dec. 2023**

- Calculation of the spatial distribution of galaxies in the universe, utilizing the two-point angular correlation function using C, CUDA and MPI.

### **Bayani**

**Oct. 2023 - Nov. 2023**

- Created an application enabling users to engage in simultaneous chat discussions across multiple PDF documents, developed using LangChain and GPT3.5 embeddings.

### **Udagram**

**Apr. 2022 - July. 2022**

- Constructed a cloud-native, microservices-based image-sharing application on AWS Elastic Kubernetes Service, DynamoDB, and AWS API Gateway. Additionally, revamped and implemented a serverless version using the Serverless Framework and AWS CloudFormation.

### **Classical Control – Deep Reinforcement Learning**

**Mar. 2022 - Apr. 2022**

- Developed a Q-learning agent from the ground up to address the Mountain Car problem, leveraging OpenAI's gym classical control environment. Constructed a Deep Reinforcement model to acquire the optimal policy for maximizing rewards with exceptional performance.

## HONORS AND AWARDS

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- **1st Place, Nokia Hackathon Finland** - November 2023
- **Erasmus Mundus Scholar EDISS (5% selection rate), European Union** - August 2023
- **Best Graduating Student, Computer Science, ABU Zaria** - Feb. 2020
- **Service Award, National Association of Computing Students (NACOS)** - Nov. 2019
- **Best Graduating Student, Crescent International School** - Jul. 2015
- **Best Graduating Student, Lufaloy Primary School** - Aug. 2009

## PRESENTATIONS AND INVITED LECTURES

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**Keynote Address, “Potentials of transformer-based AI models”** - *Google Developers Conference, Kano & Zaria, 2022.*

**Keynote Address, “Modern Web Development: A Primer”** - *Google Developers Conference, Zaria, 2020.*

**Workshop, “Privacy Changes in Android 11”** - *Android Developers Meetup, Maiduguri, 2020.*

## SPECIALIZED TRAININGS AND CERTIFICATES

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- **Neural Networks and Deep Learning** – *DeepLearning.AI, 2024.*
- **Cloud Developer** – *Udacity, 2022.*
- **Internet of Things and Embedded Systems** - *UC Irvine (Coursera), 2022.*
- **Begin Robotics** – *University of Reading (FutureLearn), 2021.*
- **Android Development** – *Google, 2021.*
- **Network Security Specialist (CNSS)** – *ICSI, UK, 2021.*
- **Machine Learning** – *Data Science Nigeria (DSN), 2019.*

## LANGUAGES

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**English:** Professional

**Hausa:** Native

**Arabic:** Intermediate

**Swedish:** Elementary