

# ABDUL-SEMED SUMAILA

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## EDUCATION

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**BSc. Computer Engineering**, University of Ghana

## SKILLS

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### TECHNICAL SKILLS

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Programming languages	Python, PHP, JavaScript
Backend development frameworks	Django, Laravel, Flask
DevOps tools	Docker, Kubernetes
Database technologies	MySQL
Data visualization tools	PowerBI, Tableau
Data engineering tools	Apache Spark, Airflow
Version control systems	Git
Cloud platforms	Azure, AWS

### SOFT SKILLS

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Collaboration with team members.  
Problem-Solving.  
Continuos learning.

## EXPERIENCE

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<b>Teaching/Research Assistant(Computer Engineering Department)</b> University of Ghana	Oct 2023 -Sep 2024 <i>Legon, Accra</i>
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- Conducted engaging labs and tutorials in Object Oriented Programming (JAVA), reinforcing OOP concepts and Java programming skills.
- Facilitated tutorials and lab sessions for Numerical Methods course, aiding students in understanding concepts using Python.

<b>ABMA Level 4 Computer Engineering Tutor(Unit 1)</b> Concord Business College	Nov 2023 - Mar 2024 <i>Dome, Accra</i>
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- Developed lecture materials, assignments, and practical examples tailored to the ABMA Level 4 Computer Engineering curriculum.
- Actively engaged with students through lab practicals, discussions, Questions and Answers sessions, and problem-solving exercises.

<b>Software Engineer(Intern)</b> Youth Employment Agency	Oct 2022 - Dec 2022 <i>Ridge, Accra</i>
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- Collaborated with a team of developers to design and develop a store management system using PHP Laravel framework.
- Utilized Git as a version control system to manage codebase changes and improve collaboration among team members during the development of the store management system.

## PROJECTS

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### Building Wireless Sensors and Ensuring Energy Efficiency Using k-Means Algorithm

- Established an effective crop growth monitoring system to identify optimal conditions for successful development.
- Implemented a hierarchical communication system to optimize data transmission from sensor nodes to the central base station, enhancing network efficiency across seasons.

### Minimizing Cancellation of Product Subscription through Financial Habits Analysis

[link](#)

Numpy, Matplotlib, Python

- Developed a predictive machine learning model using Python to analyze financial habits, accurately identifying customers likely to cancel their subscriptions, which reduced churn rate.

### Real Time Data Streaming Project

[sumaila-dev.github.io/data-portfolio/](https://sumaila-dev.github.io/data-portfolio/)

PostgreSQL, Apache Spark, Apache Airflow, Apache Kafka

- Successfully designed and deployed a real-time data pipeline using Apache Kafka and Apache Spark, enabling the processing of high-velocity data streams.
- Automated data ingestion from APIs using Apache Airflow, ensuring timely data availability.

### Global Terrorism Dataset Analysis

[sumaila-dev.github.io/data-portfolio/](https://sumaila-dev.github.io/data-portfolio/)

PowerBI

- Developed interactive dashboards in PowerBI to visualize and present terrorism data, allowing users to easily interpret complex datasets and identify key insights.

### COVID-19 Analysis Dashboard

[sumaila-dev.github.io/data-portfolio/](https://sumaila-dev.github.io/data-portfolio/)

PowerBI

- Developed a comprehensive COVID-19 analysis dashboard using PowerBI, visualizing data on Cases, Deaths, and Median Age of affected patients across various regions.

## VOLUNTEERING AND LEADERSHIP EXPERIENCE

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### Organizing Secretary of the ARM Club

Jan 2023 - Aug 2023

University of Ghana

*Legon, Accra*

- Responsible for executing and planning events for the organization.
- Led and participated in hands-on projects involving ARM embedded systems development.

### Free Python Training

6 weeks(Feb 9 - Mar 15,2024)

University of Ghana

*Legon, Accra*

- Organized and led free training sessions on Python programming, creating comprehensive lesson plans and practical exercises for diverse groups of participants.

## LANGUAGES

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- English : Professional Proficiency
- Arabic : Professional Proficiency
- Hausa, Twi : Native Proficiency