**EZIMA SAMUEL**

**Graduate Mathematics || Data Analyst || Graduate Teaching Assistant || Front-end Developer**

**Email:** [**ezimasamuel@gmail.com**](mailto:ezimasamuel@gmail.com) **|| Mobile: +2347037270651 || LinkedIn:** [www.linkedin.com/in/ezima-samuel-2b625928b](http://www.linkedin.com/in/ezima-samuel-2b625928b) || Github: https://github.com/EzimaSamuel

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**Professional Summary**

Mathematics graduate with expertise in mathematical analysis, abstract algebra, and hands-on experience in programming. I have a strong foundation in problem-solving and algorithm design and am proficient in Python, code debugging, and JavaScript. I am seeking a Master of Science in Computer Science at Northeastern University to advance my skills in computer science and develop innovative solutions to eliminate cybercrime in Nigeria and other sub-Saharan African countries.

**EDUCATION**

Bachelor of Science – Mathematics Awarded November 2019

University of Nigeria, Nsukka

CGPA: 3.46/5.0

Undergraduate Thesis: “Applications of Sylow’s theorems to the classifications of finite groups”

Supervisor: Prof. Chimere Anabantia

**RESEARCH EXPERIENCE**

Undergraduate Thesis

Abstract Algebra Research Group, University of Nigeria, Nsukka

Supervisor **Professor Chimere Anabanti**

* Extracted and classified p groups up to isomorphism
* Performed and analyzed groups of prime-power orders
* Described symmetries of objects in 3D modeling
* Analyzed group structures used in encryption algorithm
* Applied Sylow’s theorems in constructing elliptic curves
* Applied Sylow-p subgroups to identify linear codes or cyclic codes

Software Engineering – Front-end April 2024 – date

ALX Africa Tech Boot Camp

Capstone Research: “Behavior of asynchronous codes”

* Rewrote JavaScript file to meet industry and company standards for SEO and Accessibility. This drove a 400% increase in users.
* Participated in the initial wave of developers learning and implementing JavaScript frameworks.
* Designed and implemented web applications along with 3rd party software integrations as a web team liaison for all inter-departmental and customer-facing projects.

**TEACHING EXPERIENCE**

Oct 2018-Aug 20219 || Abstract Algebra Teacher || University of Nigeria, Nsukka

Taught, Examined, and Graded 3rd year students of Abstract Algebra.

Conducted surveys across mathematics, statistics, and computer science departments to determine students' mathematics performance.

Mentored students of the mathematics department on how to select a research topic.

**PROFESSIONAL EXPERIENCE**

2020 – 2023 || Data Analyst || A.G. Leventis (Nigeria) Limited

* Led the implementation of a new data analysis framework, resulting in a 25% reduction in losses, a 20% increase in data accuracy, and a 15% reduction in errors.
* Augmented quality assurance program for data accuracy and integrity, resulting in a 20% promotion rate for reports.
* Successfully managed the design and implementation of 10+ projects through the development cycle while directing data science team members.
* Utilized statistical tools, quality control techniques, and data mining processes to remove inaccuracies, and improve reliability, and performance of data pipelines.
* Developed efficient predictive algorithms to forecast trends and patterns, which uncovered 10% revenue growth.

**PUBLICATION**

**Dissertations**

**Ezima Samuel** (2019). Applications of Sylow’s theorems to the classification of finite groups. BSc project work submitted to the Department of Mathematics, University of Nigeria, Nsukka.

**HONOURS AND AWARDS**

**University of Nigeria**

* Chancellor Medal for efforts, accountability, and transparency: For my tenure as the Financial Treasurer of the Student Union Government.
* WAEC Award of Excellence: For my performance as the best science teacher in Enugu State.
* Governor Sullivan Chime Medal for my efforts, dedication, and determination to curb cybercrime: For my courage towards the formation **of Say No to Fraud**.
* MasterCard $7,000 scholarship award: For my excellent performance at ALX Scholarship Examination.

1st Position, Research Presentation

* Application of Sylow’s theorems to the classification of finite groups.
* Decomposition of groups of composite orders.
* Classification of finite groups up to isomorphism.

2nd Position, JavaScript Intensive

* Inheritance: ALX JavaScript challenge.

**LEADERSHIP EXPERIENCE**

**Say No to Fraud**

*Founder and Chief Executive Officer*

* Led a team of 15 volunteers across the 17 local governments in Enugu state, educating the youth on the dangers of cybercrime. This resulted in the confession of over 120 students who were into cybercrime. They immediately denounced it and embraced the law.
* Sharing of school material to over 50 out-of-school children across all the elementary schools in Aninri.
* Sharing of relief material during covid-19 pandemic.

**2022 Aninri Local Government Chairmanship Election**

* Contested for the position of the local government chairman under the umbrella of the All Progressive Congress (APC).
* Special adviser to the Aninri House of Assembly member on gender equality.
* Leader of Assemblies of God Sunday school teachers.