

Samuel Kubata

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PROFESSIONAL SUMMARY

Recent Mathematics and Computer Science graduate from the University of Illinois Chicago with experience in data analysis, statistical modeling, and data visualization. Skilled in Python, SQL, Excel, and reporting tools to support evidence-based decision-making and communicate insights clearly. Multilingual and internationally experienced, with a strong interest in applying data and research to education and humanitarian programs across Africa.

WORK EXPERIENCE

UIC African American Academic Network

Chicago, IL

Academic Tutor

Sep 2021 - May 2023

- Conducted individualized and group tutoring sessions for 20+ university students in mathematics, economics, and analytical problem-solving.
- Adapted complex technical concepts into accessible explanations for students from diverse academic backgrounds.
- Supported student academic success and course completion through consistent mentoring and progress tracking.
- Assisted with recruitment and onboarding efforts to expand the tutoring team and improve program capacity.

UIC Campus Housing

Chicago, IL

Office Aide

Jul 2022 - Aug 2022

- Supported the implementation of new software for residential management by leading the organization process of information pertaining to 100+ dorm rooms
- Assisted in the planning of an orientation event for ~150 incoming students by organizing orientation material for each student

EDUCATION

University of Illinois Chicago (UIC)

Chicago, IL

Bachelor of Science in Mathematics and Computer Science

Graduation Date: May 2025

PROJECT EXPERIENCE

Ski Resort Pricing Analysis

Data Analysis & Decision Support Project

- Conducted exploratory data analysis and predictive modeling on operational datasets to identify factors influencing pricing and performance outcomes.
- Applied preprocessing, feature selection, and cross-validation techniques to improve model accuracy and interpretability.
- Developed scenario-based analyses to evaluate the potential impact of operational changes and support evidence-based decision-making.
- Created data visualizations and written summaries to communicate findings clearly to non-technical audiences.
- Utilized Python libraries including pandas, scikit-learn, matplotlib, and seaborn for data cleaning, analysis, and reporting

Text Statistics Web App

Data Processing Web App

- Developed a web application to analyze user input and display real-time counts of sentences, words, and characters
- **Tools:** Python, HTML

Ternary Tree Analyzer

Tree Analysis

- Designed and implemented a ternary tree data structure to efficiently store and manage integer datasets
- Developed algorithms to insert elements, traverse the tree, and compute key properties such as the number of leaf and non-leaf nodes, nodes with degree two, and the overall tree depth

- **Tools:** C++

SKILLS

Skills: *Technical Skills:* Python, SQL, Excel, pandas, NumPy, matplotlib, seaborn, Jupyter Notebook, GitHub, HTML, C++, R, Julia; *Languages:* Fluent in Japanese and Kikongo, working knowledge of French.

LEADERSHIP EXPERIENCE

University of Illinois Residence Hall Association

Chicago, IL

Vice President of Programming

May 2022 - May 2023

- Coordinated large-scale community engagement events serving 5,000+ students through logistical planning, stakeholder coordination, and team management.
- Led a programming committee consisting of 5 members and mentored one of the members for succession
- Managed ~\$30,000 programming budget to ensure proper event funding and maintain organizational funding levels
- Increased student participation in programming initiatives by 15% through improved outreach and communication strategies.

INTERESTS

Interests: Boxing, Soccer, Calisthenics, Film, Running