SAMUEL W OUEDRAOGO

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EDUCATION

Master of Science | ***Major: Computational Analytics*** August 2025 – Present
Georgia Institute of Technology Atlanta, GA

Bachelor of Science | ***Major: Computer Engineering*** September 2021 – December 2023
Drexel University Philadelphia, PA

Associate of Science | ***Major: Mathematics*** August 2019 – June 2021
Community College of Philadelphia Philadelphia, PA

TECHNICAL SKILLS

Programming Languages: C++, Python, TypoScript, Rust, R, Unix Shell Scripts

Software Development: Systems programming, Full-stack software development, and RESTful API design

Hardware Engineering: Embedded systems design with C/C++, edge computing with Raspberry Pi

Quantitative & Statistical Methods: Time Series Forecasting, statistical modeling, data mining, optimization

Computer Vision and Machine Learning: Supervised & unsupervised learning

Tools & Platforms: AWS, Tableau, Excel, CI/CD Pipeline, Git, Linux

Data Visualization: Numpy, Matplolib, Scipy, Scikit-learn

Certifications: AWS Cloud Practitioner

Foreign Languages: French (fluent), Mandarin (elementary)

WORK EXPERIENCE

Software Development Engineer July 2025 – Present
Amazon Web Services Seattle, WA

- Designed analytics tools to detect anomalous EC2 performance trends and improve detection accuracy
- Built and deployed data-driven AWS cloud native internal software applications
- Integrated Gen AI summarization and visualization layers to accelerate statistical insights for engineering teams

Software Engineer April 2023 – Present
Lockheed Martin Moorestown, NJ

- Improved radar tracking model accuracy through algorithmic optimization
- Engineered high-performance simulation models for radar tracking and signal processing
- Built and maintained RESTful APIs to expand system capabilities and increase data accessibility across teams

Research Assistant September 2021 – August 2022
Drexel University Philadelphia, PA

- Conducted statistical analysis of financial datasets to support predictive modeling research
- Developed asynchronous spiking neural networks for neuromorphic computing experiments
- Developed an indoor robot for or sensor data acquisition

Mathematics Tutor August 2019 – August 2021
Community College of Philadelphia Philadelphia, PA

- Provided tutoring in Calculus I, Calculus II, and Statistics for Engineers
- Worked closely with faculty members to help students understand complex statistical analysis

Chemical Biological Radiological and Nuclear (CBRN) Specialist November 2018 – November 2024
US Army Aberdeen, MD

- Led teams in high-rigor operational environments requiring probabilistic decision-making under uncertainty
- Defended against CBRN threats while operating and maintaining detection and decontamination equipment

PROJECTS AND RESEARCH

Predictive Analytics Study on Smoking, Gender, and Cancer Susceptibility | *Verilog* Fall 2025
Georgia Institute of Technology

Decoding Market Patterns with Predictive Analytics | *SQL, Python, C++* Fall 2022
Drexel University

Control of Planar Phased Array Radar | *MATLAB, Python* Fall 2022
Drexel University

Indoor Robot Air Quality Monitoring | *C++, C* Fall 2021
Drexel University