

MERVEILLES B. KATUMBA

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SUMMARY

Senior Computer Science student completing a Data Science Micro-Credential, with hands-on experience in Python, R, and SQL for data preparation, transformation, validation, and analysis. Background in distributed systems and operating systems, plus experience running workloads on UB's Center for Computational Research (CCR) high-performance computing clusters. Heavy daily user of AI agents and generative AI tools to break down problems, automate repetitive work, and speed up development. Client-facing experience gathering needs and explaining technical results to non-technical people. Growth-minded, curious, and quick to learn new platforms.

TECHNICAL SKILLS

- **Data Engineering & Analytics:** Python, R, SQL; data cleaning, transformation, and validation; data visualization; Jupyter Notebook
- **Databases & Backend:** Relational databases, schema design, SQL queries, PHP, REST API testing (Postman)
- **AI & Automation:** AI agents, generative AI and LLM-based tools for problem decomposition, code generation, debugging, and workflow automation
- **Systems & Computing:** Distributed systems, UB CCR HPC clusters, Linux command line, Git/GitHub
- **Programming:** Python, R, SQL, C, C++, Go, Rust, JavaScript (React)

EDUCATION

B.S. Computer Science and Engineering University at Buffalo (SUNY), Buffalo, NY *Expected May 2027*

- Data Science Micro-Credential (in progress): data preparation, analysis, statistical modeling, and visualization in R.
- Relevant coursework: Full Stack Development (SQL, PHP, React), Distributed Systems, Operating Systems, Systems Programming, Algorithms, Advanced Algorithms for Strings and Sequences.

A.S. Computer Science & A.S. Mathematics SUNY Erie Community College, Buffalo, NY *May 2025*

PROJECTS & RESEARCH COMPUTING

Full-Stack Data Application Full Stack Development coursework *UB*

- Built a web application with a React front end and a PHP back end on a SQL relational database; designed the schema and wrote queries to store, retrieve, and update data.
- Tested and validated REST API endpoints with Postman to confirm data moved correctly between the database, back end, and front end.

High-Performance Computing UB Center for Computational Research (CCR) *UB*

- Ran computational workloads on UB's CCR high-performance computing clusters, working through the Linux command line to manage jobs, files, and software environments.

Data Analysis in R Data Science Micro-Credential *UB*

- Cleaned, transformed, and analyzed datasets in R, applying statistical methods and visualizations to identify trends and communicate findings.

Computer Vision: Feature Extraction Computer Vision coursework *UB*

- Processed unstructured image data and extracted features in Python (Jupyter), then evaluated results and documented findings in a written report.

EXPERIENCE

Regional Sales & Account Manager (Technician) HCA Hood Cleaners of America Inc., Buffalo, NY *Jun 2025 – Jan 2026*

- Managed a regional client base as the main point of contact, gathering client needs and turning them into service schedules and solutions.
- Tracked open work, schedules, and client issues across multiple accounts, spotting recurring problems and following each case through to resolution.

IT Support Assistant SUNY Erie Community College, IT Department, Buffalo, NY *Aug 2024 – Mar 2025*

- Logged, documented, and tracked support tickets, keeping accurate records that helped the team spot recurring issues and resolve similar cases faster.
- Troubleshoot hardware, software, and network issues and explained fixes clearly to users with a wide range of technical backgrounds.

Translator & Interpreter Journey's End Refugee Services & Justice for Immigrant Families WNY *2023 – Present*

- Facilitate accurate communication between service providers and clients in French, English, Swahili, and Lingala.