Naomi Molokwu

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PROFESSIONAL SUMMARY

Neuroscience graduate pursuing a Software Development & Network Engineering diploma with experience in Python, Java, machine learning, and NLP. Skilled in research, data analysis, and human cognition, with a strong record of interdisciplinary collaboration. Passionate about building ethical and inclusive AI solutions that combine technical expertise with an understanding of human behaviour, ensuring technology serves all communities effectively.

RELEVANT EXPERIENCE

Research Assistant • Department of Computer Science • Brock University • 2022

- Conducted research on ethics, diversity, and inclusion (EDI) in **AI systems** under the supervision of Dr. Ombuki-Berman
- Assessed **EDI** in the microtransit sector of the AI industry
- Synthesized and evaluated research analysis & literature reviews on scholarly articles to report current industry metrics and perform **research & development** activities for the evolution and improvement of the field

Neural Systems Analyst • NeuralVol • 2021

- Explored and documented foundational concepts in AI architecture and non-technical specifications of intelligent system
- Hosted weekly **AI&ML** presentations to the engineering team and authored **technical documentation** regarding the European Union Aviation Safety Agency's artificial intelligence documents
- Sparked long-term interest in ethical and inclusive AI design through early exposure to system-level thinking

ADDITIONAL EXPERIENCE

Learning Facilitator • Steamoji • 2024 – Current

- Mentored and coached 20+ students weekly through hands-on **STEM projects**, fostering creativity and problem-solving skills
- Coordinated apprentices in completing missions across **fabrication, physical computing, engineering, and digital arts**

Therapeutic Respite Support Worker • Bethesda • 2023 – 2024

- Led **Coding Club** for children, creating and delivering coding activities that built computational thinking, teamwork, and inclusivity
- Increased engagement by introducing project-based coding lessons for 10–12 students per session

ABA Interventionist • Bethesda • Ontario Autism Program: Entry To School • 2023 – 2024

- Facilitated a 6-month skill-building program for children with **Autism Spectrum Disorder** to develop key school-readiness skills in communication, social interaction, and functional routines
- Collaborated with a **multi-disciplinary team**, including speech-language pathologists, occupational therapists, and early childhood specialists, to deliver evidence-based interventions using applied behaviour analysis
- Provided individualized transition support for families and educators, helping children adjust to school routines during their first six months of formal education

SKILLS

Technical Skills:

- **Programming**: Python, Java, HTML/CSS/JavaScript
- **Machine Learning & AI**: NLP, AI/ML algorithms, data analysis, statistics
- **Data Tools & Libraries**: NumPy, pandas, Matplotlib, MATLAB, SPSS
- **Databases**: SQL, MongoDB, Database Management Systems
- **Cloud & Dev Tools**: AWS, Git, Visual Studio, IntelliJ

Non-Technical Skills:

- Research & Development
- Data Analysis & Academic Analysis
- Problem Solving & Critical Thinking
- Clear Communication & Explainability
- Creativity & Innovation
- Project & Strategic Planning

EDUCATION

- **Ontario College Advanced Diploma • Software Development & Network Engineering with Co-operative Education • Sheridan College • Oakville, ON, Canada • 2024- present • Expected Graduation: 2027**
- **Bachelor of Science Honours • Neuroscience • Brock University • St. Catherines, ON, Canada • 2018 - 2022**
  - Dean's List Scholar, 2020-2022
  - Thesis Dissertation: "A Study of The Effects of a Computational Model of Attention and Saliency on Working Memory Using Real-World Objects"
  - Supervisor: Dr. Stephen Emrich

RESEARCH EXPERIENCE

Independent Thesis Research Student • A Study of The Effects of a Computational Model of Attention and Saliency on Working Memory Using Real-World Objects • Visual Cognitive Neuroscience Lab • Department of Neuroscience and Psychology • Brock University • 2021-2022

- Conducted research in Visual Working Memory and attention, involving interviews with 147 participants
- Analysed data using the DeepGaze II convolutional neural network and performed statistical analysis
- Presented and defended research findings in a final report and presentation

PUBLICATIONS

Torres, R. E., Duprey, M., Molokwu, N., Campbell, K. L., & Emrich, S. (2023). *Not all objects are created equal: greater visual working memory for real-world objects is related to item memorability.*

PROFESSIONAL DEVELOPMENT & TRAINING

- AFuzion & Doymus • DO-178C • Software Considerations in Airborne Systems and Equipment Certification • 2021
- AFuzion & Doymus • DO-254 • Design Assurance Guidance for Airborne Electronic Hardware • 2021
- AFuzion & Doymus • ARP4754A • Guidelines for Development of Civil Aircraft and Systems • 2021
- Government of Canada, Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans Course on Research Ethics (TCPS 2: CORE), 2020

VOLUNTEER EXPERIENCE

- **Volunteer Staff: Supporting Neurodiversity through Adaptive Programming (SNAP)** • Brock University • 2018- 2020
- **Visual Cognitive Neuroscience Lab** • 2021 – 2022
- **Brock University Neuroscience Club** • Member • 2018 - 2019

References: Available Upon Request