

| | |
|---|--|
| <div> <div>Marvin Uwalaka</div> <div> (780)-394-8290 mcu@ualberta.ca Personal Portfolio LinkedIn </div> </div> | |
| EDUCATION | |
| <div> <div>University of Alberta</div> <div> Bachelor of Science, Major in Computing Science <ul style="list-style-type: none"> Relevant Coursework: Algorithms I, Machine Learning I, Software Engineering, Database Management, Reinforcement Learning, Linear Algebra I, Applied Statistics II, Computer Architecture I Awards: Maple Leaf Excellence Scholarship, Dean Mortensen Student Union Award, Canada Service Corps - Certificate of Recognition </div> </div> | <div> <div>July 2027</div> <div>Edmonton, AB</div> </div> |
| EXPERIENCE | |
| <div> <div>Data Science Research Intern</div> <div> Rehabilitation Robotics Lab <ul style="list-style-type: none"> Processed large-scale biomechanics and motion-sensor datasets using MATLAB, enabling clear analysis and visualization that supported research insights. Contributed to research involving XR technologies, digital health, and intelligent rehabilitation systems, helping advance innovative solutions for patient rehabilitation Developed a predictive model using sensor-derived features, achieving 85% accuracy in forecasting rehabilitation outcomes and providing actionable insights for treatment planning </div> </div> | <div> <div>May 2025 – Present</div> <div>Edmonton, AB</div> </div> |
| <div> <div>Full-Stack Developer</div> <div> UNIYE <ul style="list-style-type: none"> Implemented interactive social features (likes, comments, upvotes) supporting 500+ users, enabling real-time engagement tracking to increase user interaction and retention, and learning to manage concurrent updates and real-time data flow Optimized PostgreSQL queries and schema design, this enhanced data retrieval efficiency and overall app performance. reducing average response times by 40% Built scalable backend services using Node.js and PostgreSQL for authentication, user profiles, content posting, and access control, ensuring secure login, data storage, and structured access to user-generated content Designed personalized “For You” feeds using user interaction signals, increasing content engagement by 30% </div> </div> | <div> <div>May 2025 – Present</div> <div>Edmonton, AB</div> </div> |
| <div> <div>Full-Stack Developer</div> <div> Sencelosia <ul style="list-style-type: none"> Generated \$4,000 in revenue and attracted 2,000 site visits by promoting and managing the platform, demonstrating skills in digital marketing, analytics, and audience engagement Implemented user submission and event listing features using Node.js, gaining hands-on experience with server-side programming, database interaction, and API integration Developed a platform for art, food, and nature experiences, collaborating with a team to connect artists and the community, strengthening teamwork, project coordination, and UX design </div> </div> | <div> <div>March 2023 – August 2023</div> <div>Edmonton, AB</div> </div> |
| PROJECTS | |
| <div> <div>Goal Seeker Github</div> <ul style="list-style-type: none"> Implemented reinforcement learning algorithms to demonstrate off-policy and on-policy learning behaviors, enabling comparison of learning strategies and deepening understanding of RL principles and algorithm design Modeled an agent navigating a grid-based maze to reach a target goal state and developed an interactive RL visualizer and simulator, allowing real-time observation of agent decisions and improving simulation, debugging, and visualization skills Designed real-time tuning of learning rate, discount factor, and exploration rate, allowing dynamic experimentation and analysis of convergence and exploration–exploitation trade-offs </div> | <div> <div>October 2025 – present</div> </div> |
| <div> <div>Personal Website Github</div> <ul style="list-style-type: none"> Launched a personal portfolio website using React and Tailwind CSS, deployed via GitHub Pages, showcasing Data Science and software engineering projects Featured a combination of technical work, academic projects, and personal interests </div> | <div> <div>January 2026</div> </div> |
| <div> <div>Apollo Event Lottery Github</div> <ul style="list-style-type: none"> Developed an Android application enabling fair event registration using a lottery-based waiting list system Supported event creation, QR code check-in, and role-based access for organizers and participants Designed Firestore schemas to manage 100+ simulated users and events with real-time enrollment updates, building my expertise in scalable database design and real-time data handling Collaborated in a 4-person agile team using GitHub, UML diagrams, and sprint planning, strengthening my teamwork, communication, and agile project management skills while delivering iterative prototypes </div> | <div> <div>September 2025 – December 2025</div> </div> |
| <div> <div>Balance Assessment Github</div> <ul style="list-style-type: none"> Collected synchronized balance data from 25 adults across multiple trials and conditions, ensuring high-quality measurements for postural stability analysis Assessed agreement between center of mass (COM) and center of pressure (COP) metrics using Pearson correlations and Bland–Altman tests to validate measurement consistency Evaluated Kinetisense as a portable alternative for postural stability assessment, exploring its practicality for clinical and research applications </div> | <div> <div>May 2025 – August 2025</div> </div> |
| SKILLS | |
| <div> <div>Programming:</div> <div>C, Java, Python, JavaScript, SQL, MATLAB, Kotlin, HTML, CSS</div> </div> | |
| <div> <div>Tools & Platforms:</div> <div>Git, GitHub, Postman, Android Studio, PyTorch, scikit-learn, NumPy, Pandas</div> </div> | |
| <div> <div>Web & Backend:</div> <div>React.js, Django, Node.js, REST APIs</div> </div> | |
| <div> <div>Databases:</div> <div>PostgreSQL, SQLite, MongoDB, Firebase Firestore</div> </div> | |
| <div> <div>Spoken Languages:</div> <div>English, Yoruba</div> </div> | |