Adam Meddah

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EDUCATION

McMaster University — Hamilton, ON
Bachelor of Science in Computer Science — *Expected Graduation: Apr 2028*

EXPERIENCE

Software Developer | IntelliTracker — Jan. 2025 – May 2025
Finest Finish — *Hamilton, ON*
- Developed a web app for a local furnishing business in a 4-person university team project.
- Built AJAX-based form features for real-time add/update/delete actions—cutting submission time by over 80%.
- Engineered backend CRUD functionality with PHP and MySQL; implemented regex-based form validation to reduce client-side input errors by 75–90%.
- Created seamless, interactive D3.js charts on the "Insights" page to visualize trends (e.g., job types, delivery delays).
- Introduced GitHub collaboration practices, mentoring peers on version control and code review.

Freelance Software Developer | Therapy Website — Aug. 2025 – Present
Rick Grundy Therapy — *Hamilton, ON*
- Collaborated in a 3-person team and solely developed core features (blog with pagination, tag filtering, testimonials, and responsive sections) using Strapi CMS for no-code client updates.
- Coordinated project execution by setting deadlines, assigning tasks, and managing version control through GitHub, ensuring smooth collaboration and on-time delivery.
- Acted as client liaison, gathering requirements, writing content/slogans, and ensuring deliverables matched expectations.
- Initiated an SEO strategy with the client, preparing content and technical optimizations for launch.

Tutor — Oct. 2024 – Present
StuTaught — *Oakville, ON*
- Tutored high school students in Computer Science and other subjects, teaching Java (LibGDX, JavaFX), Python, recursion, OOP, debugging, and hands-on projects.

PROJECTS

Interactive 3D Portfolio Website 🔗 | *React, Three.js, React Three Fiber* — June 2025 – Present
- Built an immersive 3D portfolio site using React Three Fiber and Three.js, featuring a TV interface that zooms into a Netflix-style personalized experience.
- Optimized 3D assets (compressed HDR → EXR, resized images, optimized code), reducing load time from 30s to 8.8s on slow 3G networks.
- Designed tailored user flows for recruiters, developers, and writers, dynamically customizing the home screen experience.
- Implemented 3D interactions with environment and custom shaders, leveraging advanced React patterns for state management and conditional rendering.

MusiWrite | *Python, Flask, Spotify API, Ollama AI* — Nov. 2024 – Present
- Built a full-stack web app that generates personalized Spotify playlists based on user-submitted writing and selected mood/scene parameters, designed to inspire writers through music.
- Integrated Ollama AI to analyze user-submitted writing and extract key scene descriptors (e.g., "mournful," "triumphant") from user text to drive playlist generation logic.
- Used Spotify API to query and compile tracks from multiple matching playlists into a single curated user playlist, with automated title generation.
- Implemented secure account linking with Spotify OAuth, as well as user authentication.

TECHNICAL SKILLS

Languages: Java, Python, C, SQL, JavaScript, PHP, HTML/CSS, Haskell, Bash, LaTeX
Frameworks: Tailwind CSS, Flask, JavaFX, LibGDX, Tkinter, Unity
Libraries: React, React Router, pandas, NumPy, Matplotlib, TextBlob
Developer Tools: Git, GitHub, Makefile, UNIX, Apache