

Nuseyba Mohammed

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Education

Toronto Metropolitan University

Bachelor of Science - Computer Science

Minor, Mathematics | Dean's List

January 2024 - Present

Professional Work Experience

Toronto Metropolitan University Library | Circulation Desk Assistant

Toronto, ON

May 2025 - Present

- Resolved 50+ patron inquiries per shift as measured by daily service logs, by coordinating cross-department support and maintaining accurate tracking systems in a high-traffic environment.
- Reduced average inquiry resolution time by 20% as tracked through internal metrics, by streamlining communication workflows between circulation, reference, and IT departments.
- Maintained 98% accuracy in material processing as verified by monthly audits, by implementing a double-check system for holds, returns, and inter-library loans.

Outlier | AI Trainer / Mathematics

Remote

June 2024 - October 2024

- Evaluated 200+ AI-generated algorithm solutions as measured by weekly task reports, by applying data structure and algorithm expertise to identify logical and reasoning errors at scale.
 - Improved model accuracy on math outputs by 15% as reflected in internal quality benchmarks, by providing structured feedback on edge cases, time complexity, and solution correctness.
 - Ranked in the top 10% of contributors as measured by Outlier's quality leaderboard, by delivering high-precision evaluations with thorough written justifications.
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Project Experience

Advertisement Against Adversity | Full-Stack Developer

JavaScript, HTML5, CSS3, Chrome Extensions API, Firebase (Firestore, Storage, Auth), REST APIs

Ummahack 2026

- Engineered an ethical ad-tech Chrome extension with real-time data pipelines, by building verified attention tracking with Page Visibility API and Firebase atomic transactions for earnings persistence.
- Architected a scalable Firebase backend with REST APIs for ad pool management, user statistics, and a 50/30/20 revenue-sharing model tracked by Firestore real-time atomic updates.

American Sign Language Interpreter | Personal Project

Python, TensorFlow, OpenCV, NumPy, Pandas | github.com/nusu97/American-sign-language-interpreter

- Built a real-time computer vision pipeline achieving 90%+ classification confidence, by integrating OpenCV and TensorFlow Object Detection API to translate hand gestures into text via live webcam feed.
- Fine-tuned an SSD MobileNet V2 model to converge in under 10,000 training steps, by applying transfer learning, feature engineering, and adjusted learning rate schedules to resolve gradient instability.
- Managed the full ML lifecycle from dataset creation through deployment, by annotating 500+ custom images, preprocessing structured data, and debugging configuration conflicts for real-time inference.

Ethio Coffee | Personal Project

Next.js, React, TypeScript, Tailwind CSS, Framer Motion, Vercel | ethiocoffee.co

- Built and deployed a full-stack e-commerce application at ethiocoffee.co, by engineering a Next.js 15 platform with TypeScript, Tailwind CSS, PayPal checkout, persistent cart state, and DHL shipping API integration.
 - Engineered 15+ SEO-optimized pages as measured by server-side metadata generation, by implementing dynamic routing, React lazy loading, and Framer Motion animations for a production-grade browsing and wholesale inquiry platform.
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Skills

Python • Pandas • NumPy • scikit-learn • TensorFlow • OpenCV • Computer Vision • Machine Learning • Transfer Learning • Feature Engineering • SQL • PostgreSQL • Firebase/Firestore • REST APIs • Backend Development • Java • TypeScript • JavaScript • C • Bash/Shell • React • Next.js • Git/GitHub • Unix/Linux • CI/CD • Data Structures & Algorithms • OOP • SDLC • LLM/Prompt Optimization • Agile Development