MATTHEW BERANIA

(647) 916-5529 • mberania@torontomu.ca • linkedin.com/in/matthew-berania
github.com/MattBerania • matthew-berania.netlify.app

TECHNICAL SKILLS

- **Languages**: Python, Java, JavaScript, TypeScript, HTML, CSS, Bash, SQL
- **Frameworks & Libraries**: React Native, Tailwind CSS, Flask, TensorFlow
- **IDEs & Tools**: VS Code, Jupyter Notebook, Oracle SQL Developer, Expo, Firebase/Firestore, Docker, AWS
- **Project Management**: Git, GitHub, Agile, Jira

EDUCATION

Toronto Metropolitan University *(Formerly Ryerson University)*   Exp. Apr. 2027
B.Sc (Honours) in Computer Science   *Toronto, ON*
- **Awards:** Entrance Scholarship (95%+)
- **Relevant Courses:** Object-Oriented Programming, Software Engineering, Databases, Data Structures, Algorithms, Computer Security, Artificial Intelligence, Operating Systems, Software Tools for Startups, Web Development.

PROJECTS

Habit Tracker | *github.com/MattBerania/habit-tracker*   May 2025
React Native, JavaScript, TypeScript, Tailwind CSS, Expo
- Built a cross-platform mobile app to help users develop consistent habits, track their progress visually, and stay motivated daily.
- Designed and implemented reusable components like streak counters and progress bars using Tailwind CSS and React Native principles, improving code maintainability and scalability, and reducing code duplication across multiple screens.
- Implemented structured screen navigation to support smooth, intuitive, and consistent user experience across different devices.
- Planned integration of Firestore for real-time syncing, offline data persistence, and long-term scalability.

Ice Cream Manufacturing DBMS | *github.com/MattBerania/icecream-dbms*   Nov. 2024
Java, Oracle SQL, Java Swing, JDBC
- Built a Java Swing desktop application backed by Oracle 11g via JDBC to manage and visualize inventory and production data.
- Implemented GUI-based dynamic CRUD operations and table creation/deletion, supporting 8+ interrelated database tables.
- Developed a SQL query panel supporting user-defined queries and predefined reports like order stats and inventory levels.
- Enhanced usability through schema-aware forms, scrollable result tables, and validated input handling across all views.

ASL-Alphabet Translator | *github.com/MattBerania/ASL-To-English-Translator/*   Oct. 2024
Python, TensorFlow, JavaScript, Flask, OpenCV, Mediapipe, pyttsx3
- Collaborated on a tool that translates ASL letters to English text and speech, improving accessibility for non-verbal users.
- Trained a machine learning model using TensorFlow to detect and classify hand gestures with an accuracy over 60%.
- Integrated a text-to-speech feature using pyttsx3, reducing communication time by about 40% during live demo interactions.
- Followed the full Software Development Lifecycle (SDLC), from planning, agile sprints, and model training to deployment and backend integration using Flask routes and REST APIs.

Music Player simulator | *github.com/MattBerania/Music-Player-Simulator*   Apr. 2023
Core Java (Collections API, Exception Handling, java.util, java.io)
- Built a terminal-based music player simulator to explore object-oriented principles like inheritance and polymorphism.
- Implemented key features like downloading, searching, playing, and sorting tracks to simulate a simple media library.
- Practiced test-driven development and iterative debugging using terminal-based Java tooling across multiple OS environments.
- Strengthened understanding of software lifecycles, modular design, and writing clean, maintainable/scalable code.

WORK EXPERIENCE

Cashier/Barista   2023-2024
Gong Cha   *Mississauga, ON*
- Helped serve over 100 customers per shift by staying organized, being quick, and effectively communicating with team members to manage rushes efficiently, which helped reduce average wait times by around 60%, even during high-traffic weekend hours.
- Resolved customer issues efficiently by troubleshooting order errors and ensuring satisfaction in a fast-paced environment.
- Learned new POS systems and adapted to changing promotions quickly, demonstrating strong learning agility and adaptability.
- Balanced high task volume with minimal errors by staying organized, multitasking effectively, and maintaining composure under pressure.

Production Assistant – Brake Press Operator   2023-2024
Halton Indoor Climate Systems   *Mississauga, ON*
- Operated CNC brake press machines to shape 100+ sheet metal parts per shift, following schematics with efficiency.
- Identified workflow improvements that helped reduce recurring machine errors by over 30%, increasing daily production.
- Communicated production metrics through clear, concise reports to supervisors, contributing to consistent team alignment and planning.