

# NATANIM GEBRU

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Toronto, ON, Canada | +1 647-704-3953 | rasaman3@gmail.com

Portfolio: <https://natanim-b.github.io/portfolio/>

## PROFESSIONAL SUMMARY

Motivated and detail-oriented Software Engineering student graduating February 2026 with a strong foundation in machine learning, data-driven problem solving, and full-stack web development. Experienced in building scalable, interactive software solutions using Angular, Python, and cloud technologies. Adept at translating business requirements into functional, user-friendly digital experiences. Passionate about leveraging AI and data to solve real-world challenges and contribute to IBM's mission of responsible innovation.

## EDUCATION

Bachelor of Science, Software Engineering (Online) | Western Governors University, UT, USA

Expected Graduation: February 2026

- Coursework: Machine Learning, Data Structures, Database Management, Cloud Computing, Software Design
- Recognized by WGU Evaluation Faculty for exceptional Systems Thinking and analytical performance.

Certifications:

- Saylor Academy – Computer Communications and Networks
- Saylor Academy – Software Engineering

Diploma: Yaberus High School, Addis Ababa, Ethiopia

## TECHNICAL SKILLS

Programming: Python, JavaScript, TypeScript, C/C++, SQL, HTML/CSS

Frameworks & Tools: Angular, React, Node.js, TensorFlow, PyTorch, Scikit-learn, Docker, Git

Cloud & ML Platforms: IBM Cloud, AWS, Azure, Kaggle, Google Colab

Specialties: Machine Learning, LLM Integration, REST API Development, Data Modeling, Workflow Automation, System Optimization

## PROJECTS

Interactive World Map Data Visualization | Angular, TypeScript, REST APIs.

[GitLab Project Link](#)

- Designed and developed an interactive world map application with SVG-based country selection and dynamic data display.
- Integrated World Bank API to retrieve and visualize real-time regional data, improving data accessibility.

- Implemented modular routing, event binding, and reusable Angular components to enhance scalability.

California Interactive Guide | HTML, CSS, JavaScript, Bootstrap.

[GitLab Project Link](#)

- Developed a detailed, clickable front-end web application allowing users to explore California's regions and cities.
- Focused on responsive design, accessibility, and user-friendly navigation.
- Applied visual hierarchy and information architecture principles to enhance clarity and engagement.

AI-Based Recommendation System | Python, TensorFlow, Scikit-learn

- Built and fine-tuned machine learning models to recommend user content based on behavioral data.
- Applied feature engineering, model evaluation, and performance optimization techniques.
- Integrated Flask REST API for delivering predictions to a front-end client.

LLM-Enhanced Chat Application | LangChain, OpenAI API, Python

- Developed an intelligent chatbot leveraging retrieval-augmented generation (RAG) pipelines.
- Implemented contextual conversation memory and cloud deployment on IBM Cloud Functions.
- Optimized inference performance and token usage for efficient API interactions.

## RELEVANT EXPERIENCE

Computer Electrician | AMPS Logic Electric Ltd | Toronto, ON | 2022 – 2025

- Installed and maintained industrial computer systems and networking infrastructure.
- Integrated smart device systems for centralized monitoring and control.
- Supported engineering labs with computer-controlled machinery setup and calibration.

Desktop Support Manager | Addis Ababa Science and Technology University | 2020 – 2021

- Provided end-to-end IT support, including hardware/software troubleshooting and system configuration.
- Implemented automation scripts to optimize server maintenance workflows.
- Collaborated with cross-functional teams to improve system reliability and performance.

## HIGHLIGHTS

- Hands-on experience with ML frameworks (PyTorch, TensorFlow) and GenAI tools (LangChain, Semantic Kernel).
- Strong understanding of AI lifecycle, model optimization, and data analysis.
- Proven ability to work collaboratively in agile, cross-functional environments.
- Dedicated to continuous learning and applying emerging technologies to real-world challenges.