

Abdullah Adib

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EDUCATION

Computer Science, M.S.

Georgia Institute of Technology

Jan. 2026 - Present

Atlanta, GA

Computer Engineering, B. Eng

Toronto Metropolitan University (formerly Ryerson University)

Sep. 2019 – Jun. 2024

Toronto, ON

TECHNICAL SKILLS

Languages: Python, Java, Ruby, PHP, C, C++, SQL, HTML/CSS, JavaScript, Bash

Frameworks: Flask, Django, Laravel, React, Vue, Node.js, Ruby on Rails, Redis

Developer Tools: Git, Docker, AWS, Google Cloud Platform, Firebase, Bitbucket

Libraries: scikit-learn, pandas, NumPy, Matplotlib, PrimeVue, Eloquent, Tailwind

EXPERIENCE

Software Engineer

Virtual Hallway

Mar. 2025 - Dec. 2025

Halifax, NS

- Developed features and bug fixes for **10K** active users by building full-stack solutions using **Laravel**, **Vue.js**, **MySQL**, **PostgreSQL**, **Redis**, and **FastAPI** for the Virtual Hallway, Dr. IME, and Admin app platforms.
- Spearheaded **USA MVP** expansion and secured first international consult in Texas by collaborating with overseas partners to facilitate localization through UI/UX and database enhancements for global market expansion.
- Expanded platform to **2** new provinces in domestic markets and gained **150+** new users by implementing responsive design and optimizing **REST API** for improved data loading and cross-platform mobile compatibility.
- Reduced manual QA efforts by **30%** by authoring 12 comprehensive **Selenium E2E** and **Appium** test cases for critical user flows and integrating them into the Bitbucket CI/CD pipeline for automated regression testing.

Software Developer

Toronto Metropolitan University

Sep. 2023 – Feb. 2024

Toronto, ON

- Achieved **95%** movement reliability during repeated test cycles by debugging **Arduino**-based communication issues between control systems and stepper motors through protocol optimization and error handling improvements.
- Reduced manual calibration time by **40%** for MRI robot operations by developing **back-end** processes using Processing (**Java** framework) with Inverse Kinematics equations for precise fetal movement simulation.
- Improved healthcare worker task completion accuracy by **17%** in usability testing by designing accessible interfaces accommodating for monochromacy and dyslexia through intuitive navigation and succinct typography.

Software Engineer Intern

Tucows

Sep. 2022 – Aug. 2023

Toronto, ON

- Increased Mobile Service Enabler API automation by **10%** and reduced code repetition by **20%** by contributing **Ruby on Rails** specs to **Github** and refactoring code to align with organizational architecture standards.
- Ensured production code quality by implementing comprehensive testing workflows from **E2E** to **Regression** testing through manual unit testing via **Postman** and automated build validation using **GitHub Actions**.
- Prevented production errors across **17** unique sessions by monitoring API network call metrics through **Datadog** and implementing robust data storage workflows using **Apache Kafka**, **Redis**, and **AWS S3 Bucket**.

PROJECTS

Heart Disease Classification System | *Python, TensorFlow, scikit-learn, NumPy*

- Achieved **92%** accuracy by developing a **Python** Machine Learning model for patients with heart disease.
- Improved model performance by **10%** by training and testing against pre-existing Machine Learning algorithms.
- Enhanced data insights by identifying and visualizing patient clusters using k-means and nearest neighbor methods.

Simple Scribe Website | *Flask, HTML/CSS, JavaScript, Firebase, AssemblyAI*

- Created prize-winning Simple Scribe audio-transcription site by developing a **Flask** app with AssemblyAI API.
- Eliminated website buffering by implementing multi-threading and **parallel computing** with **REST API** calls.
- Enhanced user engagement by developing a modern, interactive UI using **HTML**, **CSS**, and **JavaScript**.