

Columbus, Ohio
(614) 558-1548
Citizenship: US & Canadian

AARON J. GABA

AJGaba.com
GitHub: ajgabz
aaron.j.gaba@gmail.com

EDUCATION

Toronto Metropolitan University (formerly Ryerson Univ.)
BEng Electrical Engineering (CEAB/ABET Accredited)
GPA: 3.97 / 4.33

Toronto, ON
Expected October 2025

- Relevant Coursework in: Communications, Controls, Analog & Digital IC Design, and Signal Processing

McGill University
BSc Computer Science (Math Minor)
Major GPA: 3.59 / 4.0

Montreal, QC
June 2017

SKILLS

Programming Languages:	Java, Python, C, Common Lisp, SML, VHDL
Web Development Languages:	HTML, CSS, JavaScript
Databases & Database Languages:	PostgreSQL, DB2, Redis, SQL, XML Schema, XPath, XSLT
Math & Engineering Packages:	MATLAB, R, MultiSim, Altera Quartus, Cadence Virtuoso

WORK EXPERIENCE

Private Tutor

Mar 2022 – Apr 2025

- Tutored undergraduate students in a variety of math, computer science, and electrical engineering courses at TMU.

Ohio Public Employees Retirement System (OPERS)

Oct 2017 – May 2019

Programmer Analyst

- Maintained and implemented new designs in Java-based pension savings programs to reflect changes in Ohio pension law.
- Designed ETL processes for uploading daily bank deposit data into OPERS's accounting system.
- Oversaw the redesign of OPERS's pension data exchange system to incorporate their new pension datastore.
- Automated generation and archiving of Revenue Voucher Treasurer Reports via REST and SOAP services.
- Devised and implemented system integrations for task and workflow automation between legacy Java applications on z/OS and Windows-based SSRS and ECM software.
- Optimized SQL queries in programs and reports, reducing querying time for fund allocation reports by 85%.

NOTABLE PROJECTS

TMU Engineering Capstone Project

- Partnered in the design of an economical, turnkey solution for photogrammetry using smartphone cameras.
- Collaborated in the creation of an automated, smart turntable with an integrated lightbox.
- Designed the turntable's hardware user interface and wrote the microcontroller code that governed the turntable.
- Modeled the lightbox's initial design with constructive solid geometry and fabricated test parts via 3D printing.
- Constructed ETL processes to simplify 3D model construction with RealityCapture software from smartphone photos.
- Individually awarded the 2025 David Platnick Memorial Award for "demonstrated excellence in design project performance"

McGill Work Study Database & Web Client

- Engineered a database-powered solution for McGill University's Work Study application list as a replacement for their 140-page static CSV file posted online.
- Scraped and sanitized 6,370 public financial aid records from McGill's servers.
- Modeled financial aid data and created the corresponding SQL schema.
- Constructed a database API using stored procedures to abstract away the underlying SQL internals from client applications.
- Implemented a full stack web client using Flask, AngularJS, and Bootstrap, which allows students and employers to easily view the status of Work Study applications.