

Columbus, Ohio
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Citizenship: US & Canadian

AARON GABA

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EDUCATION

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

Montreal, QC
Grad: December 2016

SKILLS

Programming Languages: Java, Python, C, Common Lisp, SML
Web Development Languages: HTML, CSS, JavaScript
Databases & Database Languages: PostgreSQL, Redis, SQL, XML Schema, XPath
Frameworks & Libraries: Flask (Python), jQuery (JavaScript), JDBC (Java), Swing (Java)

PERSONAL & ACADEMIC PROJECTS

McGill Work Study Database & Web Client
<http://ajgaba.com/workstudy>

Python, PostgreSQL, JavaScript

- 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 (work study) 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.

LilLink

<http://ajgaba.com/lil-link>

Python & Redis

- Designed and deployed a minimalistic URL shortener.
- Implemented a RESTful API for handling URL keys and values through a lightweight Flask backend.
- Employed a Redis datastore for the rapid generation and retrieval of URL keys and values.

TalkingKeyboard

<http://ajgaba.com/talking-keyboard>

JavaScript & CSS3

- Designed a multimedia educational tool for learning touch-typing; demonstrates front-end tech.
- Composed animation and graphical effects through the coupled use of jQuery and CSS.
- Incorporated efficient cross-browser speech synthesis through the use of the ResponsiveVoice API.
- Designed responsively using CSS3 to ensure that TalkingKeyboard is usable across all devices.

Movie Theatre Management System

Java, PostgreSQL, XML Schema

- Led a four-person team on the development of a medium-scale database system to handle the ticketing and film scheduling needs for a movie theatre.
- Implemented a graphical network front-end application in Java using Swing and the JDBC API.
- Designed an XML schema to incorporate semi-structured XML data from IMDB.
- Wrote extensive documentation about the database system.

WORK EXPERIENCE

Private Tutor

September 2013 — November 2016

- Tutored undergraduates in first and second-year math and computer science courses at McGill.