Aaron Gaba

Columbus, Ohio   AJGaba.com

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Citizenship: US & Canadian   Aaron.Gaba@mail.mcgill.ca

Education

McGill University   Montreal, QC

BSc Computer Science (Math Minor)   Grad: December 2016

Major GPA: 3.59 / 4.0

Skills

Programming Languages:	Java, Python, C, Common Lisp, SML
Web Development Languages:	HTML, CSS, JavaScript
Databases & Database Languages:	PostgreSQL, DB2, Redis, SQL, XML Schema, XPath, XSLT
Math & Statistics Packages:	MATLAB, R, IBM SPSS
Frameworks & Libraries:	Flask (Python), jQuery (JavaScript), JDBC (Java), Swing (Java)

Work Experience

Ohio Public Employees Retirement System (OPERS)   October 2017 – Present

Programmer Analyst

- Maintained and implemented new designs in pension savings programs to handle changes in Ohio retirement and pension law.
- Analyzed production programs to isolate problems or to determine methods that are more efficient.
- Handled frontend designs in JavaServer Pages (JSP) and backend designs in Java, Hibernate, and DB2.
- Elicited requirements and worked one-on-one with OPERS professionals to ensure that the business logic was correct and met the real world needs of the end-users.

Personal Projects

McGill Work Study Database & Web Client   Python, PostgreSQL, JavaScript

http://ajgaba.com/workstudy

- 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   Python & Redis

http://ajgaba.com/lil-link

- 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   JavaScript & CSS3

http://ajgaba.com/talking-keyboard

- 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.