

Beatrice Lopez

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EDUCATION

B.Sc. in Computer Science – McGill University

Sept. 2015 – Dec. 2019E

- Relevant coursework: Algorithms and Data Structures, Operating Systems, Software Design, Database Systems, Computer Networks, Applied Machine Learning
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WORK EXPERIENCE

Web Database Application Developer (Full-Stack)

July 2018 – Present

- Continued development and maintenance of ORCH.A.R.D. – the Orchestration Analysis and Research Database – a web application built on Django, Solr, PostgreSQL stack for the Music Perception and Cognition Lab at McGill University under the supervision of Professor Stephen McAdams.
 - Solo developer; managed project development and workflow, regularly coordinating with other developers of sibling software.
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LEADERSHIP EXPERIENCE

Co-President, Power to Change at McGill

Apr. 2017 – May 2018

VP Comm/Marketing, McGill Women in Computer Science

Feb. 2017 – Sept. 2017

SKILLS

Languages and Technologies: Java, Python, C, F#, SQL, HTML, CSS, C++, Django, Git, REST APIs

Skills: self-motivated, team player, quick learner, writes comments

Languages: native proficiency in English, limited working proficiency in French and Tagalog

RELEVANT PROJECTS

Personal Website (HTML, CSS)

- Personal website (<https://imbealopez.github.io>) to develop stronger front-end skills and document projects and experiences

Bank Database Application (Java, SQL)

- Performed requirement analysis, designed an ER schema, created a PostgreSQL database, and wrote a simple user-friendly application program in Java for a banking institution.

Hogwarts Campus Network (Packet Tracer)

- Designed and configured a university's campus network including IPv4 and IPv6 addressing, static and dynamic routing, wireless access, and configuring and testing applications.

AI Pentago Player (Java)

- Built in AI player for the two-player game Pentago-Swap using minimax algorithm with alpha-beta pruning and iterative deepening.

Reddit Popularity Predictor (Sci-kit-Learn, Pandas, NumPy, Matplotlib)

- Constructed word features from a Reddit comment dataset and designed a linear regression model using gradient descent to predict the popularity score of Reddit comments.