

Aristides Mairena

amairena.github.io

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EDUCATION

UNIVERSITY OF SASKATCHEWAN | MSc IN COMPUTER SCIENCE

Expected 2019 | Saskatoon, SK

MERCYHURST UNIVERSITY | B.A IN INFORMATION TECHNOLOGY

Aug 2013 - May 2017 | Erie, PA

Cum. GPA: 3.6 / 4.0 • Major GPA: 3.88 / 4.0

EXPERIENCE

ERIE CUSTOM COMPUTER APPLICATIONS | SOFTWARE DEVELOPER INTERN

May 2016 – Dec 2016 | Erie, PA

- Migrated and Merged existing Access databases into SQL Databases.
- Developed a responsive Web Application to simplify management of databases using C# and ASP.NET.
- Developed automated generation of reports through Crystal Reports.

RESEARCH

HCI LAB | GRADUATE RESEARCH ASSISTANT

Aug 2017 – Present | Saskatoon, SK

- Worked with **Prof Carl Gutwin** and **Prof Andy Cockburn** investigating human perception to visual stimuli for peripheral notification design. Publication accepted at CHI 19'.
- Developed custom software in Processing/Java for experimental tasks and participant data collection.
- Wrote and edited materials for international conference publications and presentations.

MERCYHURST MATH DEPT. | COMPUTER PROGRAMMING ASSISTANT

Aug 2015 – Apr 2017 | Erie, PA

- Designed database schema containing over 15 tables for forensic anthropology data.
- Created databases utilizing PHP5, and MySQL that streamlined data management.
- Developed intake forms that improved user experience for interaction with MySQL Database.

LANGUAGES

PROGRAMMING

Java • Python • JavaScript • R • HTML • CSS • C# • PHP • SQL • \LaTeX

Software/Libraries:

Tableau • Gimp • D3.js • SQL Studio

SPOKEN & WRITTEN

Native fluency:

English, Spanish

Reading fluency:

French

PUBLICATIONS

- [1] M. Dechant, I. Stavness, A. Mairena, and R. L. Mandryk. Empirical evaluation of hybrid gaze-controller selection techniques in a gaming context. In *Proceedings of the 2018 Annual Symposium on Computer-Human Interaction in Play, CHI PLAY '18*, pages 73–85, New York, NY, USA, 2018. ACM.
- [2] A. Mairena, C. Gutwin, and A. Cockburn. Peripheral notifications in large displays: Effects of feature combination and task interference. In *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems, CHI '19*, 2019.