

Aristides Mairena

Software Developer / HCI Researcher

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📁 [amairena.github.io](https://github.com/amairena)

in [aristidesmairena](#)

Education

- 2017-2019 **Master of Science**, *Computer Science*, University of Saskatchewan.
2013-2017 **Bachelor of Arts**, *Information Technology*, Mercyhurst University, *Cum Laude*.

Technical Skills

- Languages C#, ASP.NET, JavaScript, HTML/CSS, PHP, SQL, Java, Python, R, L^AT_EX.
Software Visual Studio, Rstudio, SQL Server Management Studio, phpMyAdmin, Tableau, Crystal Reports.
Frameworks Bootstrap, D3.js, JQuery, P5.js, ggplot2.

Experience

- Sept 2017 - **Graduate Research Assistant**, *HCI Lab*, University of Saskatchewan, Saskatoon.
Present HCI Lab. Advisor: Carl Gutwin.
Collaborated with faculty and students across different labs to conduct research experiments in UI design/performance, and data visualization.
- May 2016 - **Software Developer Intern**, *ECCA*, Erie, PA, USA.
Dec 2016
 - 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
 - Created stored procedures to calculate results for distribution of funds.
- Aug 2015 - **Computer Programming Assistant**, *Mercyhurst University Math Dept.*, Erie, PA, USA.
Apr 2017
 - Designed database schema contains over 15 tables for forensic data.
 - Created databases utilizing PHP5, and MySQL that streamlined data management.
 - Developed intake forms that improved user experience for interaction with MySQL Database.
 - Built an internal tool for non-developers to freely access and update data in production databases.
- Jan 2015 - **Peer Tutor**, *Mercyhurst University Tutoring*, Erie, PA, USA.
Apr 2017
 - Facilitated a learning environment for one-on-one tutoring in Computer Science courses, providing students with study techniques that resulted in improved academic performance
 - Classes tutored: Programming I, Programming II, Intro to Data Science

Projects

- Prototypes Developed web application that connects to the NASA API. The webapp has a dropdown calendar which allows user to select a day, and the NASA picture of the day is displayed along with description. Application is hosted at shinyApps. R, Shiny, JS, Node

Honours and Awards

- 2017 Faculty Scholarship (HCI Lab)
2015 Dean's List
2013-2017 Mercyhurst International Scholarship

Conferences and Workshops Attended

- 2017 MITACS Entrepreneurship Workshop, Saskatoon.
2017 MAA Allegheny Mountain Section Meeting, Duquesne University.
2016 MAA Allegheny Mountain Section Meeting, Gannon University.

Other

- Languages Spanish(Superior Proficiency), French(Limited Proficiency).