Mark Asuncion

647-835-5992 | gm.asuncion@mail.utoronto.ca | linkedin.com/in/markasuncion | github.com/gmasuncion | markasuncion.xyz

Education

University of Toronto Sep. 2019 – May 2023
Honours Bachelor of Science in Applied Statistics, Minors in Mathematics & Computer Science *Mississauga, ON*

- Cumulative GPA - 3.9/4.0
- Achieved Dean's Honours List throughout all semesters enrolled
- Relevant Coursework: Probability & Statistics, Data Structures & Algorithms, Statistical Learning
- Extracurriculars & Societies: Intramural Basketball, UTMSAM, UTM CSSC, Data Science Toronto

Experience

Teaching Assistant Aug 2021 – Present
University of Toronto *Mississauga, ON*

- Conducted and facilitated weekly tutorials with **30+** students for MAT135
- Supervised both lectures and discussion boards to provide students with answers to their questions in real-time
- Marked over **1000** assessments from term tests to assignments, providing detailed feedback to each student

Undergraduate Research Assistant May 2021 – Aug 2021
University of Toronto *Mississauga, ON*

- **1 of 2** research positions awarded by NSERC to students in the Mathematics and Computational Sciences department with **outstanding** academic records
- Implemented the simulation of various survival analysis algorithms and goodness of fit tests in **R** to check the validity of a proposed model against right-censored data
- Peer edited and co-authored final publication of the research's findings

Lead Instructor Dec. 2018 – Present
Mathnasium *Meadowvale, ON*

- Mentored students from ages 5 to 18 towards academic success by teaching them through curated learning plans
- Facilitated the **"team-teaching"** methodology amongst other instructors
- Built and deployed a web application that increased instructor punctuality by **11%**

Projects

Statistical Analysis | *R, ggplot* Jan. 2021 – Apr. 2021

- Performed an analysis within a team of 4 other students on fast food chains and nutritional values as part of the cumulative project for STA258: Statistics with Applied Probability
- Created meaningful plots of the data using libraries like **ggplot** and rendered out the report using **R Markdown**
- Carried out numerous **hypothesis tests** to form statistical inferences about different parameters within the study

Instructor Dashboard | *Python, Flask, Selenium, BeautifulSoup4, Heroku, Git* June 2020 – Dec. 2020
mathstudent-tracker.herokuapp.com

- Developed a full-stack web application with **CRUD** functionality using **Python** and **Flask**, deployed on **Heroku**
- Created a web scraper connected to a dashboard to help resolve instructor tardiness that displays all active students and their relevant information to employees in real-time
- The scraper was built using **automation** libraries like **Selenium** and **BeautifulSoup4**

Digit Identifier | *Python, Keras, Matplotlib, Git* March 2019
https://github.com/gmasuncion/The6ixPrediction

- Implemented a **neural network** in **Python** capable of identifying handwritten digits with **96%** accuracy
- Constructed and trained the model using **Keras** and plotted the results of each prediction using **Matplotlib**

Technical Skills

Languages: Python, R, SQL, HTML/CSS, Java
Developer Tools: Git, VS Code, Jupyter Notebooks, Rstudio, PyCharm, IntelliJ, Eclipse, Excel
Libraries/Frameworks: Pandas, NumPy, Matplotlib, Keras, Selenium, BootStrap, Flask