Philip Soriano

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WORK EXPERIENCE

Walker Advanced Manufacturing Innovation Centre   **May 2024 - Jan 2025**
Computer Programmer Research Assistant   *Welland, ON*

- Configured, upgraded, and dockerized SuiteCRM for **Kubernetes** deployment, ensuring compatibility with custom modules, and automating installation with **Bash** and **GitLab CI** scripts.
- Developed **Python** scripts with **GeoPandas** and **SciPy** to detect and address residual data noise in soil property maps, improving processing efficiency and eliminating manual analysis by researchers.
- Resolved critical issues in an internal **ETL** data migration tool, ensuring seamless migration from historical databases.
- Collaborated with the research team of a partner company to develop and refine methods for detecting artefacts in data, using **gradient analysis** and **edge detection algorithms** (**OpenCV**) on images generated on the dataset using **MatPlotLib** to identify anomalies efficiently.

Welland Minor Baseball League - Community Sponsored Project   **Jan 2024 - May 2024**
Developer / Team Lead   *Welland, ON*

- Led a team in developing a responsive web application using **C#**, **ASP.NET**, **HTML**, **CSS/Bootstrap**, and **JavaScript** to streamline game tracking, scorekeeping, and player statistics for the Welland Minor Baseball Association.
- Oversaw the implementation of the **MVC design pattern**, promoting clear separation of concerns and efficient management of models, views, and controllers
- Managed version control with **GitHub**, reviewing and merging code submissions to maintain code quality and consistency across the project.

PERSONAL PROJECTS

Thesis Contribution
A History of Misrepresentation; Centering Trans-Feminine Individuals Within Craniofacial Approximations   *(AWS Face Rekognition, CompreFace,*
by Taylor Violet Ross   *Face++)*
https://www.dundee.ac.uk/masters-showcase/2024/taylor-violet-ross

- Edited and proofread thesis while assisting in data collection and analysis.
- Leveraged **facial recognition APIs** to compare and quantify the consistency of craniofacial approximations of the same skull, examining how different standards proposed by the author affected the results.

Snake Clone UWP Game
https://github.com/sorphil/sanic-uwp/   *(C#, Universal Windows Platform)*

- Developed a Snake Clone game using the **Universal Windows Platform (UWP) with C#**, featuring an interactive and engaging user interface.
- Utilized game loop mechanics and input handling to replicate classic Snake gameplay, gamepad and keyboard controls for an optimal user experience across devices.

To-Do Web Application
https://github.com/sorphil/todolist-web   *(JavaScript, CSS3, HTML5, Python, Django/Django REST)*

- Designed a web application using vanilla **JavaScript/HTML/CSS** as the frontend and storing data and handling authentication and sessions using **Django-REST** framework as the backend (hosted using the basic service provided by Python Anywhere)

EDUCATION

Niagara College   **Jan. 2023 - Jan 2025**
Computer Programming and Analysis Co-op   *Welland, ON*

- GPA: 3.7/4.0
- President's Honour Roll for three consecutive terms
- **Relevant Courses:** Data Warehousing, Big Data Programming & Reporting, Network Security, Operating System Administration
- **Technologies Used:** R, MongoDB, Apache Spark, Java, Apache Hadoop, PySpark, Ubuntu, SSIS, .NET MAUI

TECHNICAL SKILLS & CERTIFICATIONS

Skills

- **Languages:** Python, C#, Javascript, HTML/CSS3, Java
- **Libraries & Frameworks:** Numpy, MatPlotLib, SciPy, Pandas, GeoPandas, Django/Django-REST, ASP.NET, .NET, REACT, Sass
- **Tools:** Git, Linux, Shell/Bash Scripting, Docker, Kubernetes, JWT, CI/CD

Certifications

- Microsoft Certified: Azure Fundamentals AZ-900
- Certified Kubernetes Application Developer (CKAD) (In Progress)