# MARIE CHANTAL T. TAN

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A senior undergraduate student pursuing a Bachelor of Science in Information Systems, as well as an artist who enjoys playing with programming and statistical tools to create meaningful, engaging, and explorative designs. Enjoys exploring other academic studies such as physics and biomedical science through interdisciplinary projects. Projects are rewarding to work on because they encourage the brainstorming of modern and cost-effective solutions for real-world problems.

## EDUCATION

University of Maryland, Baltimore County (UMBC) 2017 — 2021
**Bachelor of Science in Information Systems, Minors in Mathematics & Statistics**

## SPECIALIZATIONS

- Mixed Reality (AR/VR)
- Computer-Aided Designing (CAD)
- Animations
- Data Visualization
- Graphic Designing
- Web Designing

## SKILLS

- C/C#/C++
- R
- Python
- HTML/CSS/JS
- Scheme
- Julia

## DEVTOOLS

- Unity, Unreal
- Maya (Renderman), Blender, SketchUp
- RStudio, MatLab, Jupyter, Anaconda
- APIs
- ArcGIS
- Photoshop

## PROFESSIONAL EXPERIENCE

**Student Researcher** — Weill Cornell Medicine August 2019 — Present
- Work with graduate and undergraduate students to create an AR program that provides quantitative feedback on a catheter's position within the heart of a patient

**Software Programming Intern** NASA Goddard Space Flight Center May 2017 — August 2017
- Converted HDF4 files to HDF5 so that satellite data is compatible with up-to-date programming libraries
- Engaged with the Julia programming community and independently read documentation to better understand geospatial programming with Julia and HDF-EOS tools

**Software Testing Intern** NASA Jet Propulsion Laboratory September 2016 — December 2016
- Developed new approaches to manage, manipulate, visualize, and analyze big data in physics so that meaningful information can be extracted
- Conducted independent investigative research on open source devtools in order to determine which provide the most robust and precise physics simulations; which tools can be integrated with each other; and what the strengths and weaknesses of each tool are

## COLLABORATIVE PROJECTS

**WLCMD.org (Web App)** — The Women's Law Center of Maryland September 2019
The original website was designed before mobile usage was prevalent. Thus, the site needed to be updated so that users can find information on both web and mobile platforms. Collaboration was done with professional designers and developers.

**LivePangaea (Web App)** — PennApps XX September 2019
This application makes donating a more fulfilling and social experience through connecting its users to the people whose lives they've impacted. It uses social networking, data visualization, and mobile payments to bring communities and charities closer together. Collaboration was done with other undergraduates who were inexperienced in web development and had diverse coding backgrounds.