# WINSTON N. TAN

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## TECHNICAL SKILLS

**Programming Languages:** Java, C, C++, Python, HTML, CSS, JSON, SQLite, Ruby, MIPS Assembly Language, AVR Assembly Language
**Software:** Eclipse, Visual Studio, IntelliJ, RESTful API, MATLAB, Arduino, Autodesk Fusion 360, Anaconda, Apache, Google Colab, Git/GitHub, Virtualitics, Blender, Spatial, Linux

## EXPERIENCE

**Acclaim Technical Services (ATS)** - SWE/Extended Reality (XR/VR) Intern – Summer 2022

- Visualized and filtered large data sets for the virtual world (Augmented Reality/Mixed Reality)
    - Responsible for engineering, testing, and software programming the front-end design, using APIs for testing, 3D modeling in Blender, Web Development for a government client, and programming a web framework
    - Tools used: REST APIs, Postman, PyCharm, Flask, Python, Blender, HTML, Git/Git Bash, Virtualitics, Spatial, GIS, and Oculus Rift
- Utilized software such as Virtualitics (Advance AI Analytics Tool) to filter out data from a large data set to create a pleasing representation and analysis for the customer
- Employed RESTful API methods to ingest data such as coordinates onto a Cesium GIS mapping system

## PROJECTS

**OTV Rover Project**

- Used C/C++ and Arduino to create an autonomous rover capable of navigating through an obstacle course via ultrasonic sensors and a WIFI vision system
- Lead a team of 7 to build a rover capable of extinguishing and reporting flames using snuffers, flame sensors, a WIFI module, and a servo motor; budgeted project using Microsoft Excel

**Terp Store**

- Created a webpage mimicking Terrapin Webstore using HTML and CSS
- Configured Apache and XAMPP to serve the webpage on a local server for testing and developing purposes
- Incorporated several HTML features such as forms, fields, links, and other tags to enable website navigation across multiple pages

**Blender Prototypes**

- Created custom 3D shapes using Blender and Python
- Used Git Bash to push the custom 3D object onto an Army Prototype website

**Shell Project**

- Developed the guts of a shell that supports Boolean operations, pipes, and file redirection
- Demonstrated proficiency in C programming by utilizing advanced features such as pointers, input/output redirection, makefiles, threads, and processes

## EDUCATION

**University of Maryland, College Park** **May 2024**

*Department of Computer Science, Computer Science Major*

*Robert H. Smith School of Business, General Business Minor*

## RELEVANT COURSEWORK

**Programming/Math/Engineering Courses:** Intro. To Data Science; Advanced Data Structures; Web Application Development; Object-Oriented Programming; Discrete Structures/Mathematics; Computer Systems; Organization of Programming Languages; Algorithms; Calculus; Differential Equations, Applied Probability and Statistics; Physics; Intro to Electrical & Computer Engineering; Digital Logic Design; Engineering Design
**Business Courses:** Principles of Management, Foundations of Financial Management, Entrepreneurial Opportunity Analysis; Discovering New Ventures; Foundations of Accounting