MATTHEW BANDOS

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Website: *(https://matthewbandos.netlify.app/)* GitHub: *(https://github.com/RoboticsMB)*

Highly motivated, accomplished, multilingual student with a background in computer science and a passion for robotics. Thrive in collaborative team settings and excel in challenging projects. Seeking opportunities to further develop expertise in robotics and programming, while actively contributing to a dynamic organization in a real-world environment.

Experience

Simcoach Games	Summer Apprenticeship, Team Lead	6/10/2024 – 7/19/2024

*Developed Game to teach Scheduling Skills (See LinkedIn), Presented at Simcoach Offices
Coordinated Project, Debugging, Troubleshooting, Communication, Planning, Teaching
Tools: Unity (C#), Audacity, Krita, and Maya.*

Robotics Team (Quasics)	Team Captain, Lead Programmer, and TA	5/6/2021 – 6/3/2024

*Programming, Software TA (Taught C++ and Java to younger programmers, distributed workload)
Debugging, Communication. Troubleshooting electronic components and custom circuits,
Coordinating Robot Design, Strategizing at Competitions, Presented at Google on Robotics.*

Chess Camps	Teaching Assistant	6/19/2023 – 8/4/2023

Reiterated chess concepts. Assisted with chess puzzles and gameplay. Supervised children.

Stem Coding Lab	Volunteer Teaching Assistant	6/7/2023 – 7/28/2023

Taught CS material. Organized CS Activities. Helped in project prototyping. Supervised children.

Camp Invention	Volunteer Teaching Assistant	6/24/2021 – 7/1/2021

Assisted in teaching material. Design prototypes. Set up activities. Supervised children.

Education

University of Maryland	Honors College Student	7/09/2024 - Present

Anticipated Computer Science and Statistics Double Degree: 47 Credits Transferred

Gateway High School	Salutatorian	8/24/2020 – 6/3/2024

GPA: 4.4+, SAT: 1560 (99th Percentile), PSAT: 1510 (99th Percentile), 12 AP Exams

Extra Courses

MIT EdX: *Intro to Computer Science and Programming Using Python*	6/3 – 8/6/2020

Classes and Inheritance, Computational Complexity, Searching/Sorting Algorithms, Data Visualization

MIT EdX: *Introduction to Computational Thinking and Data Science*	10/14 – 12/18/2020

*Optimization/Knapsack Problems, Dynamic Programming, Graphing, Stochastic Thinking
Decision Tree, Random Walks, Inferential Statistics, Monte Carlo Simulations, Data Usage*

University of Pittsburgh: *Object Detection and Localization in Medical Images*	7/10 – 7/14/2023

Introduction to: Deep Convolutional Neural Networks, Object Detection, Localization, PyTorch,

HarvardX: *Data Science: R Basics*	6/28/2021 – 7/20/2021

Functions, Data Types, Vectors, Sorting, Indexing, Data Wrangling, Plots, Conditionals, Loops

Projects

Personal Website: *https://matthewbandos.netlify.app/* (HTML, CSS, Java Script)
Google Forms to Canvas: *Converts Google Forms to its Canvas equivalent (Python)*
Robot Operating Software: *(2022, 2023, 2024) and "Gladys" for 2023 FIRST Regional and Championship (C++)*
(And just for fun) Physics Homework Solver: *Systematic, brute force solver for online homework problems. (Python)*

Selected Achievements

National Merit Scholarship Winner (2024)	AP Scholar with Distinction (2023, 2024)
FIRST GPR Robotics 1st Place Alliance (2023)	CalcuSolve 1st Place (2023), 1st Place (2022)
AAA WPIAL Tennis 1st Place (2023), 2nd Place (2024)	WPIL Chess Championship 1st Place (2022)

Extra Curriculars

Ukrainian Duolingo (700+days), Snowsports Club, Tennis, Robotics, Chess, Piano, Community Service (100+hrs)