

# 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	6/10/2024 – 7/19/2024
<i>Developed Game to teach Scheduling Skills (See LinkedIn), Presented at Simcoach Offices Programmer Unity (C#), Audacity, Krita, Maya, Team Lead, Coordinated Project, Debugging, Troubleshooting, Communication, Planning, Organizing, Teaching</i>		
Robotics Team (Quasics)	Team Captain, Lead Programmer, and TA	5/6/2021 – Present
<i>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.</i>		
Chess Camps	Teaching Assistant	6/19/2023 – 8/4/2023
<i>Set up Chess activities. Reiterated concepts. Assisted with chess puzzles and gameplay.</i>		
Stem Coding Lab	Volunteer Teaching Assistant	6/7/2023 – 7/28/2023
<i>Set up CS activities. Taught CS material. Helped in project prototyping. Supervised children</i>		
Camp Invention	Volunteer Teaching Assistant	6/24/2021 – 7/1/2021
<i>Set up activities. Assisted in teaching material. Design prototypes. Supervised children</i>		

## Education

University of Maryland	Honors College Student	Beginning 8/21/2024
<i>Anticipated Computer Science and Statistics Double Degree: 47 Credits Transferred</i>		
Gateway High School	Salutatorian	8/24/2020 – 6/3/2024
<i>GPA: 4.4+, SAT: 1560 (99<sup>th</sup> Percentile), PSAT: 1510 (99<sup>th</sup> Percentile), 12 AP Exams</i>		

## Extra Courses

MIT EdX: Intro to Computer Science and Programming Using Python	6/3 – 8/6/2020
<i>Classes and Inheritance, Computational Complexity, Searching/Sorting Algorithms, Data Visualization</i>	
MIT EdX: Introduction to Computational Thinking and Data Science	10/14 – 12/18/2020
<i>Optimization/Knapsack Problems, Decision Tree, Dynamic Programming, Graph Stochastic Thinking Random Walks, Inferential Statistics, Monte Carlo Simulations, Data Usage, ML, Statistical Fallacies</i>	
University of Pittsburgh: Object Detection and Localization in Medical Images	7/10 – 7/14/2023
<i>Introduction to: Deep Convolutional Neural Networks, Object Detection, Localization, PyTorch,</i>	
HarvardX: Data Science: R Basics	6/28/2021 – 7/20/2021
<i>Functions, Data Types, Vectors, Sorting, Indexing, Data Wrangling, Plots, Conditionals, Loops</i>	

## Projects

Personal Website: Information About Me (<https://matthewbandos.netlify.app/>)(HTML, CSS, Java Script)  
Google Forms to Canvas: Scans and copies google form and converts to its Canvas equivalent (Python)  
Robotics Software: Used to operate robot in 2023 FIRST Regional and Championship (C++)  
(And just for fun) Physics Homework Solver: Systematic brute force algorithm to solve homework problems online. (Python)

## Selected Achievements

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

## Extra Curriculars

*Ukrainian Duolingo(600+days), Snowsports Club, Tennis Team, Robotics, Chess Club, Piano, Community Service (100+hrs)*