

Jacob Magnuson

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Overview: University of Central Florida freshman with over five years of experience in application design, cybersecurity, and general programming. Pursuing a career in software design and computer science education.

Related Projects:

- **CryptoCTF** (2016) – High School Cryptography Competition – Project Manager
 - Led a small team of 4-6 students to create an entirely student-run cybersecurity competition. The competition ran for two weeks in May 2016 and had more than 2400 participants from around the world.
- **EasyCTF** (2017-2018) - High School Cybersecurity Competition – Problem Designer / Human Resources
 - Joined the EasyCTF Team to design problems, help competitors, serve as a point of contact, and solicit sponsorship from various corporations.
 - EasyCTF is a student-run cybersecurity competition aimed at middle and high school students whose objective is to develop interest in whitehat hacking in students. It has reached more than 12000 students and is often used as a learning tool in classrooms.
- **Algodome** (In Development) - Algorithms Education Platform
 - Free online tutorials and exercises spanning content from elementary programming to that of an intermediate collegiate algorithms and data structures course.
 - Designed to serve as both a classroom tool and a resource for personal study by utilizing progress tracking and practice problems.

Academics and Coursework:

- MAC 2312 / 2313 – Calculus II / III, MAD 2202 – Linear Algebra, COT 3100 – Discrete Structures, COP3330 – Object Oriented Programming, COP3502H – CS1 Honors, PHY2048C – Physics 1 Honors
- Competitive Programming Summer Institute at UCF – Summer 2016, 2017

Miscellaneous Activities:

- Suncoast Programming Club
 - Founded and served as President of the Suncoast Programming club, an organization which held twice-weekly tutoring and lecture sessions for beginning and advanced programmers.
 - Organized more than 8 club trips to high school programming competitions nationwide.
- Boy Scouts
 - Became an Eagle Scout in 2016 following a service project involving the construction of a mountain bike service station in Jonathan Dickinson State Park.
 - Served in several positions of responsibility within the Troop, including Senior Patrol Leader.
- Tutoring
 - Spent more than 500 hours between 2015 and 2016 acting as a personal and group tutor in math, physics, and computer science-related subjects.
 - Ran an AP Calculus AB/BC Review the night before the tests on YouTube ([jmag.me/live](https://www.youtube.com/watch?v=jmag.me/live))
 - Mentored the FLL Robotics Program at a local middle school for four years.

Awards and Achievements:

- Competitive Programming
 - ACM-ICPC Southeast Regional: 2017 – 4th place
 - UCF High School Programming Tournament: 2015 – 1st place, 2016 – 4th place, 2017 – 2nd place
 - HP CodeWars Houston: 2015 – 2nd place, 2016 – 4th place, 2017 – 2nd place
 - FIU High School Programming Competition: 2015 – 2nd place, 2016 – 2nd place
 - USACO Platinum Division spectator
- Cybersecurity (CTFs)
 - Qualified for NYU CSAW's High School Forensics Finals – 8th place globally
 - PACTF – 1st place
- School Duel (Tri-county Quiz Bowl) – 2nd place 2016, 1st place 2017
- National Merit Semifinalist
- AP Scholar with Distinction