# Chris Nalty

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## Education

University of Maryland                                        Spring 2018 - Anticipated May 2021
Bachelor's in Computer Science and Mathematics                                        GPA 3.91

Salisbury University                                                          Spring 2017 - Fall 2017
                                                                                          GPA: 4.0

## Relevant Coursework

**Computer Science:** Algorithms, Organization of Programming Languages, Intro to Data Science, Discrete Structures, Computer Systems, Intro to Aerospace Systems
**Math:** Calculus 1-3, Linear Algebra, Differential Equations, Statistics, Number Theory
**Expected Spring:** Machine Learning, Computer Vision, Cryptography, Advanced Calculus

## Skills

**Well Known:** C, C++, Java, Python, NumPy, Git, Docker, OpenCV, Unix
**Used:** MATLAB,  Ruby, PyTorch, Javascript, HTML/CSS, ARM assembly, OCaml

## Employment

**Mukh Technologies - Software Engineering Intern**                          May 2019 - Present
- Data and algorithm visualization for facial recognition software
- Containerization of neural network pipeline in Docker
- Deployment of networks on the edge, including Jetson TX2 and Nano

**Orbit Logic - Systems Engineering Intern**                      November 2018 - May 2019
- Regression testing
- Automation of test setup and running including database restoration using python

## Projects

**Gait DNA Analysis** | June 2018 - Present
- Determine if each person in a video is walking freely, carrying a heavy object, or carrying a concealed object using machine learning
- Stabilize videos so body appears still with arms and legs moving
- Use frequencies and amplitudes from arm and leg movement to determine carry

**Program Driven Hovercraft** | Fall 2017
- Designed, with a team of four, a hovercraft with drive and obstacle sensors leading to avoidance maneuverability
- One button operational
- Built from foam, fans, wired through relays

## Honors and Awards

Richard Henson School of Science and Technology Dean's List
Teamsters Local Union 639 Golf Tournament Scholarship