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