

Aiden Cullo

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EDUCATION	B.S. Applied Physics, Math, and Computer Science <i>State University of New York (SUNY) at Binghamton</i> summa cum laude	Aug 2020 <i>Binghamton, NY</i>
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EXPERIENCE	Annunciation House <i>Shift Coordinator</i> Helped refugees detained by border patrol reconnect with their families or sponsors, travel to their host cities, and attend their mandated court appearances.	Mar 2022—Aug 2022 <i>El Paso, TX</i>
	Casa Tochan <i>Volunteer</i> Aided migrants in finding jobs, renting apartments, and petitioning the government for asylum, residency, citizenship, driver's licenses, work permits, and vaccinations.	Jan 2022—Mar 2022 <i>CDMX, MX</i>
	Tree of Hopes <i>Volunteer</i> Coordinated with sponsors, lawyers, police, government officials, and healthcare professionals to support guests and safeguard their civil and informational rights.	Sep 2021—Dec 2021 <i>Juarez, MX</i>

RESEARCH	SUNY Binghamton <i>Research Assistant</i> Advisor: Alexey Kolmogorov Employed an evolutionary algorithm and neural network to search for stable alloy crystal structures. Helped parallelize the group's MAISE software package.	Aug 2017—May 2020 <i>Binghamton, NY</i>
	California Institute of Technology <i>Summer Undergraduate Research Fellow (SURF)</i> Advisor: Nai-Chang Yeh Performed scanning tunneling microscopy/spectroscopy of topological defects in the surface state of pure and Cr-doped (BiSb) ₂ Te ₃ -bilayer topological insulators.	Jun 2019—Aug 2019 <i>Pasadena, CA</i>
	Sapienza University of Rome <i>Summer Research Assistant</i> Advisor: Stefano Giagu Constructed a convolutional neural network to classify particle collisions for the DarkSide-20k experiment. Generated nuclear and electron recoil event data.	Jun 2018—Aug 2018 <i>Rome, IT</i>
	National Aeronautics and Space Administration (NASA) <i>Software Engineering Intern</i> Advisor: Christopher Teubert Built a library in C++ and MATLAB to represent/interpret battery metadata subject to varying degrees of uncertainty for autonomous drone fleets.	Jun 2017—Aug 2017 <i>Mountain View, CA</i>
	Cornell University <i>Summer Research Assistant</i> Advisor: Ross Knepper Developed an algorithm in C++ and ROS that enabled an industrial robot to identify the depth, shape, and texture of various physical objects. Implemented procedure to gauge compatibility of distinct objects based on 3D infrared point cloud datasets.	Jun 2016—Aug 2016 <i>Ithaca, NY</i>

SKILLS	Languages: English (<i>native</i>), Spanish (<i>fluent</i>), French (<i>working</i>) Portuguese (<i>elementary</i>) Programming Languages: C++, C, Java, Python, MATLAB, OpenMP, SQL, L ^A T _E X Technologies: Windows, macOS, Word, Excel, PowerPoint, Linux, Git, Vim
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