

# Ace Chun

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## EDUCATION

<b>Massachusetts Institute of Technology</b> <i>Prospective 6-3 (Computer Science) and STS (Science, Technology, and Society) Major</i> <ul style="list-style-type: none"><li>• <b>Credits:</b> 6.100A, 6.1010, 6.2020, 18.01, 18.02, 18.03, 18.C06, 5.111, 8.01, 6.S191, 18.063, 6.1210, 6.3900, 8.02, 7.016, STS.012</li></ul>	2024 – 2028 (expected) Cambridge, MA
<b>Montgomery Blair High School</b> <i>Science, Mathematics, and Computer Science Magnet</i> <ul style="list-style-type: none"><li>• <b>Computer Science Coursework:</b> Fundamentals of Computer Science, Algorithms and Data Structures, Analysis of Algorithms, Networking and Cybersecurity, Computational Methods, Future of Programming Languages, Intro to Artificial Intelligence</li><li>• <b>Mathematics Coursework:</b> Analysis II (Multivariable Calculus and Differential Equations), Applied Statistics, Introduction to Logic, Discrete Math, Complex Analysis, Quantum Physics (survey course)</li></ul>	2020 – 2024 Silver Spring, MD
<b>MIT Lincoln Labs Beaver Works Summer Institute</b> <i>Quantum Software</i>	2022 Cambridge, MA

## EXPERIENCE

<b>Research Intern with the Information Technology Laboratory</b> <i>National Institute of Standards and Technology</i> <ul style="list-style-type: none"><li>• Worked with Dr. Justyna Zwolak and Dr. Merritt Losert on optimizing latched readouts of quantum dot hybrid qubits.</li><li>• Designed classical computer vision pipelines and trained deep convolutional neural networks for precise feature localization.</li></ul>	2025 Gaithersburg, MD
<b>Research Intern with MIT FutureTech</b> <i>Computer Science and Artificial Intelligence Lab (CSAIL)</i> <ul style="list-style-type: none"><li>• Worked with Dr. Jayson Lynch as part of the Measuring Progress in Algorithms group.</li><li>• Surveyed and analyzed time and space complexity of quantum algorithms.</li><li>• Contributed data to the Quantum Economic Advantage Calculator.</li></ul>	2024 – 2025 Cambridge, MA
<b>Teaching Instructor for Quantum Software</b> <i>Beaver Works Summer Institute, MITRE and Lincoln Labs</i> <ul style="list-style-type: none"><li>• Taught supplementary material about Quantum Computing to high school juniors and seniors.</li><li>• Lectured on mechanics behind mathematical qubit representations and Grover's algorithm.</li><li>• Provided assistance to students during final team projects, including an implementation of the Variational Quantum Classifier.</li></ul>	2024 Cambridge, MA
<b>Research Intern at the Collaborative Controls and Robotics Lab</b> <i>University of Maryland, Department of Mechanical Engineering</i> <ul style="list-style-type: none"><li>• Worked under Dr. Yancy Diaz-Mercado on robotic actuation and computer vision projects.</li><li>• Created training data annotation software from HTML, CSS, and JavaScript for Google DeepMind's TAPIR point-wise tracking model.</li><li>• Researched agent tracking and control theory for MagnetoSuture, an autonomous, minimally invasive, and tetherless surgical system.</li><li>• Attended IEEE Integrated STEM Education Conference 2024: Facilitating a Hands-On Approach to Open and Modular Engineering Projects through Software Design and Data Collection.</li></ul>	2023 – 2024 College Park, MD
<b>Regional Director</b> <i>Steel City Codes</i> <ul style="list-style-type: none"><li>• Organized free programming education summer camps and classes for students from grades 4-8.</li><li>• Led outreach efforts to students of historically underprivileged backgrounds, aiming to level the playing field of computer science opportunities.</li><li>• Taught introductory to intermediate level Python, Java, and Web Design courses.</li></ul>	2021 – 2024 Washington, D.C.

## SKILLS & INTERESTS

**Skills:** Python, JavaScript, ReactJS, Pandas, Q#, LaTeX, Java, HTML/CSS, Julia, MS Excel, Git