

Ace Chun

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EDUCATION

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

EXPERIENCE

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

SKILLS & INTERESTS

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