John Yang

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EDUCATION

Georgia Institute of Technology

B.S. in Pure Mathematics, B.S. in Computer Science, B.S. in Economics

CUNY Hunter College

B.A./M.A. in Pure Mathematics, B.A. in Computer Science, B.A. in Economics

Hunter College High School

High School Diploma

Relevant coursework: Measure theory and advanced real analysis, algebraic and point-set topology, algebraic geometry, algebra with Galois theory, Bayesian statistics, probability theory, intermediate macroeconomics, econometrics, game theory, complex analysis, combinatorics, advanced linear algebra, dynamical systems, computer theory and finite automata, data structures and algorithms, computer architecture and organization, data science, most of the STEM AP classes.

EXPERIENCE

Welding and Craft Apprenticeship, Prototype Instructor	Sept. 2024 – Present
ISGT at Georgia Institute of Techonology	Atlanta, GA
• Maintain and specialize in operation of TIG/MIG welders, embroidery and various othe	r craft tools.
Train and assist users on fabrication tasks in the largest student-run makerspace in NorConduct interviews and do general administrative and accounting work.	th America.
Hall Council Finance Officer	Oct. 2024 – Present
Georgia Institute of Techonology	Atlanta, GA
• Managed finances and budget for residence hall, hosted many events.	
Communicated with hall directors and administrators on various administrative issues.Developed and maintained spreadsheets for keeping track of operations.	
Hunter Economics and Finance Team President and Captain	Sep. $2021 - June 2023$
Hunter College High School	New York, NY
• Coached three teams of twelve members total and taught introductory and intermediate complete lecture material, notes and competition problem sets.	e economics. Wrote
• The team was relatively unknown in 2021, grew to become the New York State and nat competitions (see next point).	ional champions in various
 1st place internationally HPEC 2022, 2023, 3rd place nationally in NEC 2020, 2023, 1st NEC 2023 	place NY State NPFC,
Various Competition and Leadership Positions	Sep. 2017 – June 2023
Hunter College High School	New York, NY
• 1st place in HawkHacks 2023 hackathon.	
• 3rd place in Purple Comet! 2023 Math Competition.	
• 1st place in 2018 NY Science Bowl, 2022 NY History Bowl.	
Projects	
SimCo Scraper and Market Optimizer Python and various libraries	2022 - 2023
• Scraped market data from Sim Companies, an economy simulation	
• Reverse engineered various market mechanisms, found equilibrium distribution for econo	
• Piped all previous data into a mathematical model (involving constrained optimization most profitable goods and services.	and discounting) to find the

LC-3 Processor | CircuitSim, C, Assembly

- Implemented a basic LC-3 processor in CircuitSim.
- Incorporated ALU, registers, control logic, ISA, microcontroller.

Atlanta, GA Expected Graduation 2026

> New York, NY Jan. 2022 - Aug. 2024

New York. NY Sept. 2017 - June 2023

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Spring 2025

Statue of a Fencer | 3D scanner, Pepakura, inkscape, waterjet, TIG welder

- A 3D model of a fencer is simplified into far fewer polygons.
- These polygons are flattened and cut out on a waterjet.
- Waterjetted parts are then TIG welded together into the simplified polygonal model.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, LC-3 Assembly, $I\!AT_{\rm E}X$, Mandarin Tools: TIG/MIG welder, lathe, manual mill, laser cutter, waterjet, most handheld power tools, Git, Pandas, Excel/Google Sheets, VS Code, Photoshop, Inkscape, Stata, JUnit

FUN STUFF

Sports: Sabre fencing (NCAA Div III), casual rock climbing, cycling

Academics: Solving contrived puzzles, directed reading programs in model theory, graduate game theory, currently leading a reading group in advanced (PhD-level) microeconomics