Alex Rupp-Coppi

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Education

Columbia University, Columbia College, New York, NY   Expected May 2021 (Currently on Gap Year)
BA Computer Science, **GPA 3.2**

Choate Rosemary Hall, Wallingford, CT   2012 – 2016
High school diploma
Dean's List (eleven trimesters), Cum Laude, Honorable Mention for Excellence in Computer Science

Relevant Experience

Freelance Math Tutoring   July 2017 – Present (2 months)
SAT Math, Algebra I, II, Geometry, and some Trigonometry
- Working with a student with significant learning disabilities going into senior year of high school on math competency and SAT preparedness
- Heavy emphasis on conceptual understanding through guided practice, with the goal of building intuition for:
  - Using and manipulating negative numbers, exponents, radicals, and sums; explaining squares and roots geometrically
  - Using various representations of the same quantity to make unlike terms combinable
    - Factoring, distributing; differences of squares, completing squares
    - Manipulating fractions with unlike denominators to add and subtract them; fractions to decimals and back
  - Proportionality (direct, inverse), ratios, unit conversions, relating quantities by a constant (e.g. $y = mx + b$, $p = kt$)
  - Solving equations and balancing systems; using reciprocals and coefficients to cancel terms
  - Statistical reasoning (mean vs median, size of sample vs diversity of sample, interpolation vs extrapolation, outliers)
  - Understanding something, nothing, and infinity (what does it mean to divide by zero?)
- While also rehearsing and reinforcing basic math skills (two- and three-digit arithmetic, multiplication, long division)

Academic Leadership Charter School   February 2017 – March 2017 (2 months)
Assistant Teacher, English Language Arts Tutor
- Worked in the South Bronx with low-income Black-Hispanic students in kindergarten through fourth grade 1-2 days a week (9 hours per day)
- Worked one-on-one, with groups of 5-10 students, and with whole classes (20-25 students)
- Picked short stories, and prepared lesson plans and worksheets for them, according to Common Core standards (with reading comprehension and vocabulary focus)
- Taught lesson plans to mid-size groups (5-10 students); at job interview taught a full class
- Graded math quizzes for teachers; handled student supervision at lunch, recess, and dismissal

International Rescue Committee Refugee Youth Summer Academy   July 2015 – August 2015 (2 months)
Peer Mentor (Assistant Teacher)
- Worked in Manhattan with a class of refugee ESL students ages 8 to 11 five days a week for six weeks (class size of 12)
- Translated between Spanish and English for non-English speaking families at parent-teacher conferences
- Resolved multiple repeated inter-student conflicts; regularly handled classroom management in absence of main teacher
- Co-chaperoned class on 8-hour field trips through NYC every Friday

Choate Programming Union (CPU)   2013 – 2016 (3 years)
Instructor, Co-Founder and Co-President
- Helped launch and grow my high school's first computer science club
- Worked with co-presidents to secure a $1000 education grant from Google in Fall of 2014
- Helped increase Computer Science enrollment tenfold over three years (so credited by head of CS department)
- Prepared and led 63 workshops and lectures covering topics from game design to web development, with an average attendance of 15 to 20; worked towards the mission, "teach people how to code"

Languages – Spanish (near-fluent speaking, reading, writing), German (near-native speaking), Chinese (basic)