Justin Zhang

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EDUCATION

Carnegie Mellon University	Pittsburgh, PA
MS in Computer Science (Thesis) GPA: 4.0 <u>Thesis</u> : Secure Convertible Codes	May 2023 – May 2024
Carnegie Mellon University	Pittsburgh, PA
BS in Computer Science, Concentration in Algorithms, Minor in Math GPA: 3.78, University Honors	Aug. 2019 - May 2023
PRESENTATIONS	
CMU Undergrad Theory Group	Pittsburgh, PA
Carnegie Mellon University	May 2023
"Coding Theory and Applications to Storage Systems"	
Meeting of the Minds Research Symposium	Pittsburgh, PA
Carnegie Mellon University "Matrix Agreenting for Becommendar Sectors on TDU-"	May 2022
"Matrix Approximations for Recommender Systems on TPUs"	
WORK EXPERIENCE	
Software Development Intern	May 2024 – August 2024
Amazon	Seattle, WA
• Interning in the STORES Organization.	
SCS Research Assistant (TheSys Lab)	Jan 2022 – Aug 2024
Carnegie Mellon University	Pittsburgh, PA
Mentored by Rashmi Vinayak on research in the intersection of coding theoDeveloped information-theoretic secure convertible code constructions and it	
Software Engineering Intern	June 2022 – August 2022
Goldman Sachs	New York City, NY
Deployed an end-to-end distributed streaming computation pipeline with ADramatically improved the processing of firmwide permission events hundred	
Volunteer Assistant Director of Classes	May 2016 – August 2022
UEAA Fun Fun Saturday	New York City, NY
• Mentored a team of 12 volunteers to maintain the day-to-day quality of our	r program's classes.
• Interviewed and collaborated with over 15 instructors to have a diverse class	ss catalog for more than 200 students.
Python Programmer	July. 2021 – June 2022
GPN Lab @ UPMC	Pittsburgh, PA
• Solely developed a sophisticated pacman-like game application with Pygam	
• Implemented logging mechanisms to calculate optimal player movement for	future data analysis.
TEACHING EXPERIENCE	
15-151 Mathematical Foundations for Computer Science (S24)	

- Tutored a student biweekly for 3 hours a week. Hired by the university as an official course tutor.
- Extensively built tutee's intuition through carefully guided examples and material review.

21-301 Combinatorics (S23), 21-373 Algebraic Structures (F23)

- Held weekly office hours and consistently answered questions on Piazza.
- Responsible for grading weekly homeworks and exams.

15-150 Functional Programming (S21,M21,F21,S22,S23)

- Led two weekly recitations of twenty students reviewing course topics and held biweekly office hours.
- Created new homework problems and recitation lesson plans through at least twenty content development teams.

Presidential Doctoral Excellence Award (2024, Purdue)

Nominated by the Purdue Computer Science department for outstanding scholarly potential. Support for four years.

The Tepper Scolarship (2022-2023, CMU)

Selected as a recipient for high achieving academic performance. Semesters received: S22,F22,S23

UEAA Scholarship (2021)

Scholarship for academic and personal achievement while dedicating time and effort to serve the Chinatown community.