

Justin Kleidermacher

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EDUCATION

The University of Chicago - Joint Bachelors and Masters <i>Computer Science</i> <ul style="list-style-type: none">• GPA: 3.8/4.00 — Dean's List• Relevant Coursework: Computer Systems, Computer Security, Discrete Math, Theory of Algorithms, Data Science, Math for the Physical Sciences	Chicago, IL 2021 – 2025
Miami Beach Senior High School - Valedictorian, National Merit Scholar <ul style="list-style-type: none">• GPA: 4.00/4.00; SAT: 1560 (800M, 760R)	Miami, FL 2017 – 2021

WORK EXPERIENCE & COMMUNITY SERVICE

Data Science Institute @ UChicago - (https://geodacenter.github.io/reactgeoda/) <i>GeoDa Intern</i> <ul style="list-style-type: none">• Refactored the GeoDa software into an interactive web project using React and Next.js• Designed a dynamic, dashboard style-web interface with Figma and React-Grid-Layout• Created functionality for loading, processing, and storing different spatial data formats (GeoJSON, etc)• Tracked user selections of data, variables, and analysis methods using Redux• Implemented GeoDa's spatial and quantitative methods using a kepler.gl map component• Presented the final product in a symposium with a poster and video	Chicago, IL 2023 – Present
Threedle - Computer Graphics Research Collective (https://3dl.cs.uchicago.edu/) <i>Researcher</i> <ul style="list-style-type: none">• Identified shortcomings in prominent loss functions used in computer graphics• Implemented a novel loss function with PyTorch, improving mesh deformations• Developed controls for text-driven 3D feature growth and stylization for input meshes• Integrated and tuned state-of-the-art optimizers and models for comparing text and images• Experimented with diverse meshes and prompts on a GPU cluster for visualizing results	Chicago, IL 2022 – Present
PJ Pillows (Instagram: @pjpillows) <i>Founder and President</i> <ul style="list-style-type: none">• Started an e-commerce company raising \$14,000+ for Alzheimer's research• Donated 100+ handmade photo pillows to Alzheimer's patients	Miami, FL 2017 – 2022

TECHNICAL PROJECTS

Personal Website (https://justinkleidermacher.com/) <ul style="list-style-type: none">• Designed personal website using HTML, CSS, and JavaScript
Chess Practice Bot <ul style="list-style-type: none">• Created a Python-based chess interface with an adjustable AI opponent for practice
Smash Bros. Stage Selector <ul style="list-style-type: none">• Trained a neural network on Smash tournament data to select the optimal stage for any matchup

EXTRACURRICULAR EXPERIENCE

UChicago Chess Club <i>Member</i> <ul style="list-style-type: none">• Attend weekly matches and tournaments with the UChicago chess team• Peak USCF rating of 1960. Placed top two in Florida and top ten in the nation	Chicago, IL 2021 – Present
UChicago CS Student Activities Council (hack@uchicago) <i>Member</i> <ul style="list-style-type: none">• Participate in Hack Nights with topics including machine learning to computer security	Chicago, IL 2021 – Present
Speech and Debate <i>Public Forum</i> <ul style="list-style-type: none">• Florida public forum state champion in 2020 and placed top twenty in the nation in 2019	Miami, FL 2017 – 2021

SKILLS & INTERESTS

Programming: Python, C/C++, JavaScript, HTML/CSS, Racket, R
Technologies & Libraries: Git, PyTorch, Next.js, React
Languages: English, Spanish
Interests: Philosophy, Chess, Beach Volleyball, Super Smash Bros, Poetry, Fantasy Football