

# Justin Kleidermacher

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## EDUCATION

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

## WORK EXPERIENCE & COMMUNITY SERVICE

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

## TECHNICAL PROJECTS

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

## EXTRACURRICULAR EXPERIENCE

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

## SKILLS & INTERESTS

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