Justin Kleidermacher

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EDUCATION

The University of Chicago - *Joint Bachelors and Masters in Computer Science*   **Chicago, IL**
- **GPA**: 3.83/4.00 — Dean's List   2021 – 2025
- **Relevant Coursework:** Comp. Security, Systems, Crypto, Discrete Math, Algorithms, Data Science

Miami Beach Senior High School - *Valedictorian, National Merit Scholar*   **Miami, FL**
- **GPA:** 4.00/4.00; SAT: 1560 (800M, 760R)   *2017 – 2021*

WORK EXPERIENCE & COMMUNITY SERVICE

Zenblen - *Tech-enabled Smoothie Bar*   **Chicago, IL**
Software Engineer Intern   *Summer 2024*
- Augmenting front-end kiosk UI with phone number collection and reward system features
- Developing the backend dashboard and database components using JavaScript and AWS lambda
- Collaborating with interdisciplinary teams (operations and electric) to ensure fully cohesive product

Center for Spatial Data Science @ UChicago   **Chicago, IL**
GeoDa Team Software Engineer   *Summer 2023 – Present*
- Refactored the GeoDa software into an interactive web project using React, Next.js, and kepler.gl
- Designed a dynamic dashboard-style web interface with Figma and React-Grid-Layout
- Implemented ChatGPT callback functions for generating spatial maps based on user prompts
- Presented the demo web application in the UChicago summer lab symposium; preview at https://geoda.ai/

Threedle - *Computer Graphics Research Collective*   **Chicago, IL**
Research Assistant   *Summer 2022 – 2024*
- 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

PJ Pillows (Instagram: @pjpillows)   **Miami, FL**
Founder and President   *2017 – 2022*
- Started an e-commerce company raising $14,000+ for Alzheimer's research
- Donated 100+ handmade photo pillows to Alzheimer's patients

TECHNICAL PROJECTS (https://github.com/justin-kleid)

Uncommon Hacks 2024 Hackathon - UofC Dining App (https://devpost.com/software/my-uofc-dining)
- Winner of the best project in the Data Analysis Track over 100 hundred participants
- Queried UChicago's dining hall API's to map food options and nutrients across times and dining halls
- Enabled selections of meals, tracking these nutrients against personally tailored daily nutrition goals

Personal Website (https://justinkleidermacher.com/)
- Designed personal website using HTML, CSS, and JavaScript

Chess Practice Bot
- Created a Python-based chess interface with an adjustable AI opponent for practice

Smash Bros. Stage Selector
- Trained a neural network on Smash tournament data to select the optimal stage for any matchup

EXTRACURRICULAR EXPERIENCE

UChicago and Bristol University Chess Club   **Chicago, IL**
Member   *2021 – Present*
- Attend weekly matches with the UChicago chess team; peak USCF rating of 1960.
- Competed with Bristol University's A team during semester abroad, finishing 2nd place in the league

Speech and Debate   **Miami, FL**
Public Forum   *2017 – 2021*
- Florida state champion for Public Forum in 2020 and placed top twenty in the nation in 2019

SKILLS & INTERESTS

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