

DANIEL CHEN

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EDUCATION

Carnegie Mellon University

May 2025

- Bachelor of Science in Information Systems (Intended Minors in Computer Science and Business Administration)
- QPA: 3.81/4

Bellaire Senior High School

June 2021

- Rank: 1 of 797

PROJECTS

CMU Business Technology Group Website – *Software Engineer*

October 2021-Present

- Designed and implemented new website for the CMU Business Technology Group (cmubtg.com)
- Used React.js to build multiple front-end components for the CMU BTG website redesign
- Developed programmatically generated pages using GraphQL and Netlify CMS in order to easily accomplish future iterations of the site.
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Your Home at Information Systems – *67-250 Term Project*

December 2021

- Designed a prototype in Figma for my Design Fundamentals course that would help users explore the complicated nature of IS (<https://figma.fun/2pB5Hf>)
- Reached out to high school students and potential transfer students to find areas of interest within information systems as well as areas that created confusion

Hack112 – *Second Place Finisher*

November 2021

- Coded “MapQuest 112”, a turn-based strategy map game (<https://github.com/anirudhprakash/FriedOreos-SCS>)
- Utilized procedural map generation based on the Floyd-Warshall and BFS algorithms
- Created a computer player that utilizes the minimax algorithm

Definitely Not Celeste

November 2021

- Coded a platformer game based on Celeste for my Fundamentals of Programming and Computer Science Course (https://github.com/Yumptydumpty/112_Term_Project)
- Developed game using both Tkinter and pygame for efficiency
- Incorporated procedural map generation based on the Drunkard’s Walk and Cellular Automata Algorithms

RELEVANT COURSE EXPERIENCE

15-112: Fundamentals of Programming and Computer Science, 15-122: Principles of Imperative Computation, 21-127: Concepts of Mathematics, 67-250: Information Systems Millieux

EXPERIENCE

Astronomy Club

August 2019 – May 2021

- Manipulated data with Pandas and NumPy libraries in Python and used matplotlib to visualize data as HR-Diagrams
- Utilized SQL queries to extract data from the BOSS and SDSS databases and made plots to predict distances of galaxies
- Generated 3-color astronomical models using data extracted from the IRSA database

Huaxia Chinese School – *Teacher and Teacher Assistant*; Houston, TX

May 2019 – July 2019

Non-profit organization offering curriculum in various academic enrichment programs

- Assisted in teaching Computer Science course in Java comparable to the AP CSA course
- Created a connect4 AI program in java using the minmax algorithm
- Designed and executed original math curriculum for grades 1-6

SKILLS AND INTERESTS

Software Skills: Python, Java, Microsoft Excel and PowerPoint, R, Tableau, SQL

Languages: Fluent in Chinese

Interests: Chess, Japanese, Cooking