ETHAN PINEDA

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EDUCATION

Northwestern University | Cumulative GPA 3.6 — Evanston, IL
Bachelor of Arts: Computer Science — Expected June 2025

Relevant Coursework: Fundamentals of Computer Programming II, Data Structures and Algorithms, Introduction to Artificial Intelligence, Introduction to Computer Systems, Computer Game Design and Development, Game Design Studio

Technologies: Python, C, C#, C++, HTML/CSS, JavaScript, React, SQL   **Foreign Languages:** Spanish, Mandarin Chinese

PROFESSIONAL EXPERIENCE

Technological Innovations for Inclusive Learning and Teaching | *Research Assistant* | Evanston, IL   March 2022 - Present
- Partner with the BLINC project to enhance and implement interactive and accessible front-end features to improve user experience for the real-time multimodal learning analytics platform
- Spearhead the transition of BLINC codebase from Angular to React increasing code flexibility and readability for future features
- Direct open house for lab to further recruitment of undergraduate which led to >100 applications sent in and 20 new members

Northwestern University Department of Computer Science | *Undergraduate Teaching Assistant* | Evanston, IL June 2022 - Present
- Dedicate 6-10 hours weekly for office hours to aid more than 200 students in Data Structures and Algorithms course
- Work closely with Professor Vincent St. Amour to provide feedback and grades on student code submissions and examinations
- Guide students through assignment specifics, attend to Q&A board daily keeping average response time within 5 minutes

Design and Innovation for Social Change | *Software Engineer* | Evanston, IL   February 2022 – June 2022
- Worked as a student developer in a team of 5 to create a JavaScript application for Chicago Furniture Bank that calculates users' environmental impact with a web-based interactive calculator
- Compiled and presented information and statistics on environmental savings and benefits on donating furniture to CEO and company partners at Chicago Furniture Bank and its sister company
- Coordinated weekly meetings with team members to implement, design, and collaborate on one feature of web application weekly

TECHNICAL PROJECTS

Trip Planner API | DSSL2, Racket
- Implement a trip planning application programming interface (API) that provides routing and searching services using various data structures (linked list, hash table, weighted undirected graph, binary heap) and algorithms (Dijkstra's algorithm, heap sort)
- Complete various implementations of abstract data types using data structures (such as using a hash table data structure to apply the dictionary ADT)
- Determine the asymptotic time and space complexity of several functions

Fundamentals of Computer Programming | Python, C, C++
- Complete a fully functional "Geometry Dash" game in C++ using classes and class inheritance
- Design a Bayes Classifier that analyzes the sentiment conveyed in text, returning either positive of negative depending on the text that was inputted utilizing Python
- Develop a program that fully performs and implements the run-off voting system using object-oriented programming in C

Konane Game Solver | Python
- Develop a Konane solver with functionally to allow players to compete against an AI opponent, or have the AI play against itself
- Implement Artificial Intelligence player using minimax with alpha-beta pruning algorithms

LEADERSHIP & PROFESSIONAL DEVELOPMENT

Society of Hispanic Professional Engineers | *MentorSHPE Chair* | Evanston, IL   January 2022 – Present
- Supervise and manage mentorship program for first-generation and low income Latinx identifying engineering/STEM majors
- Expand overall participation in program by 70% through more emphasis on recruitment of first-year students and regular events
- Lead new initiatives to increase retention rate in program by 50%, specifically creating and designing new methods for mentors to engage with their mentees and collaboration with Evanston Township High School

Emerging Coders | *Webmaster* | Evanston, IL   September 2022 - Present
- Lead bi-weekly Leetcode review and portfolio building projects sessions for first-generation and low-income students interested in technology with an average attendance of 30 members