

# ETHAN PINEDA

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## EDUCATION

**Northwestern University** | Cumulative GPA 3.6 Evanston, IL  
Bachelor of Arts in Computer Science June 2025 (Anticipated)  
**Relevant Coursework:** Data Structures and Algorithms, Human-Computer Interaction, Game Design and Development, Computer Systems, Artificial Intelligence  
**Technologies:** Python, JavaScript, React, p5.js, HTML/CSS, C, C++, SQL **Foreign Languages:** Spanish, Mandarin Chinese

## EXPERIENCE

**Ruta Health** | *Software Engineer* | Evanston, IL January 2023 – Present

- Work with healthcare startup and actively contribute to the development and launch of beta product, including leading the development of a React frontend with a NodeJS backend resulting in improved performance and scalability
- Collaborate with cross-function teams to understand needs of stakeholders and users and implement features and functionalities that enhance user experience and improve overall performance of the website

**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
- Develop interactive website that combines Microsoft Microbit and p5.js to create interactive art that responds to users' physical movement, resulting in an immersive and engaging user experience

**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
- Awarded Outstanding Peer Mentor Award in recognition of high performance and dedication to student learning and support

**Design and Innovation for Social Change** | *Developer* | 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, Honest Junk Company
- Coordinated weekly meetings with team members to implement, design, and collaborate on one feature of web application weekly

## PROJECTS

**Personal Website** | React, JavaScript, HTML/CSS, p5.js

- Create a personal portfolio website using React, JavaScript, HTML/CSS and p5.js to display my abilities and work experiences
- Apply p5.js to add dynamic and interactive elements to the website such as animations and interactive graphics
- Implement responsive design techniques to ensure the website is optimized for all screen sizes and devices

**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

**Flight Simulator** | C#, Unity Game Engine

- Utilize Unity's physics engine to create a realistic flight simulation and C# to create game logic utilizing software engineering principles such as object-oriented design, version control, and testing
- Implement features such as realistic flight dynamics, terrain mapping, and instrumentation displays
- Project result led to a fully polished, fully functional flight simulator that was showcased to peers and received positive feedback

## LEADERSHIP & PROFESSIONAL DEVELOPMENT

**Emerging Coders** | *Webmaster* | Evanston, IL September 2022 - Present

- Manage team of 3 engineers in the development and launch of a website for our organization
- Apply agile project management methodologies to ensure timely delivery and effective communication amongst team members
- Lead bi-weekly Leetcode review and portfolio building projects sessions for first-generation, low-income students interested in technology with an average attendance of 30 members

**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