

# Nihaal Shetty

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## EDUCATION

### William Rainey Harper College

*Associate in Science*

January 2026

**Coursework:** Computer Science Principles, Computer Science I, Computer Science II, Discrete Mathematics, Calculus 3

### DePaul University

*B.S. in Computer Science*

June 2028

## EXPERIENCE

### Computer Science Tutor

*Schaumburg, IL*

*Private High School Tutor*

May 2025 - Present

- Guided high school students in learning the fundamentals of programming through interactive lessons in Python, JavaScript, and web development
- Designed hands-on projects to demonstrate real-world applications of coding concepts
- Improved students' confidence and engagement in STEM by creating a supportive, collaborative learning environment

### Harper Society of Engineers

*Palatine, IL*

*Urban Search and Rescue Project: Robotics Engineer*

Aug. 2024 - May 2025

- Collaborating with a team to design, build, and program autonomous robots capable of navigating simulated urban environments
  - Programming navigation algorithms to enhance obstacle avoidance and target identification accuracy
- American Society of Civil Engineers (ASCE) 3D Printed Bridge Competition: Member** Aug. 2024 - May 2025
- Collaborating with a team to design and optimize 3D-printed bridge structures for strength, stiffness, and aesthetic appeal, meeting rigorous competition requirements
  - Applying computational modeling and simulation tools to design and optimize 3D-printed bridge structures for strength, stiffness, and aesthetics
  - Conducting iterative design prototyping using CAD software, improving structural performance through data-driven refinements

## PROJECTS

### Word Analysis Chrome Extension

- Developed a Chrome extension that dynamically graphs the frequency of words in highlighted text, enabling quick textual insights and trend analysis
- Implemented interactive data visualization using JavaScript, HTML, and CSS to present results in a user-friendly interface

### Personal Website

- Built a personal portfolio website from scratch using HTML, CSS, and JavaScript
- Designed and implemented responsive UI layouts

### Audio File Transcriber

- Created a web application depending on back-end programming that transcribes audio files using Flask, Python, Javascript, HTML, and CSS
- Building a sentiment analysis and data visualization

## SKILLS & COMPETENCIES

**Languages:** C++, Python, Java, JavaScript, HTML, CSS

**Tools:** React, Git, Visual Studio, Android Studio, Flask, Tableau, PowerBI

**Technologies & Concepts:** REST APIs, Data Visualization, CI/CD Pipelines, Test-Driven Development, Statistical Analysis

**Skills:** Agile Development, Data-driven Decision Making, Communication, Time Management, Collaboration, Public Speaking, Organization