Nihaal Shetty

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EDUCATION

Northern Illinois University
B.S. in Computer Science — Aug. 2021 - May 2025

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

EXPERIENCE

Motorola Solutions — *Chicago, IL*
Computer Science 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 — Jan. 2025 - Present

- 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 - Present

- 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
- Utilized Chrome APIs to process user-selected text in real time

Personal Website

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

Audio File Transcribe

- Created a web application that transcribes audio files using Flask, Python, HTML, and CSS
- Building a sentiment analysis and data visualization based on frequency of words

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