

Deep Rana

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EDUCATION

DePaul University

Bachelor of Science in Computer Science

Sep. 2021 – June 2025

Chicago, IL

- GPA: 3.3
- Relevant Coursework: Data Structures & Algorithms, Computer Systems, Object-Oriented Programming, Software Engineering, Data Analysis, etc.

EXPERIENCE

Information Technology Technician

SONOVA GROUP USA

June 2022 – Aug. 2022

Aurora, IL

Completed and attended to necessary tasks such as visually inspecting hearing aid devices, extracting batteries, sorting batteries and order entries, and other technical tasks needing attention.

- Deal with hearing aid devices hands-on
- Assist with behind-the-ear devices, order entry, FM technology, quality assurance, invoicing, pre-invoicing, and more

PROJECTS

Backend for Search Engine | Python

Oct. 2023 – Nov. 2023

Collaborated within a team to develop backend code for a sophisticated search engine using Python. Contributed to the design and implementation of efficient algorithms for indexing and querying large datasets, enhancing search functionality, and optimizing performance. Worked closely with teammates to integrate various components seamlessly, ensuring robustness and scalability of the search engine.

Stock Exchange Trading System | Java

Jan. 2024 – May 2024

Designed and implemented a professional-grade object-oriented trading system utilizing various design patterns, featuring precise price management, comprehensive trading operations, user and product management, and real-time market data publication.

Games: Hangman, Connect 4, Baccarat, Triangle Peg Solitaire | Python, Java

Sep. 2021 – May 2023

Developed a variety of interactive games using Python and Java, including a command-line-based Hangman game, a graphical Connect 4 game for two players, a Baccarat game, and a Triangle Peg Solitaire game. Each game features its own unique set of game mechanics and user interface, including error handling and intuitive user prompts. The code for each game is well-documented and optimized for readability and maintainability. Employed data structures and algorithms such as breadth-first search, heuristic search, hash maps, trees, etc.

E-Portfolio Website (work in progress) | HTML, CSS, JavaScript

May 2024 – Present

Creating an e-portfolio website with HTML, CSS, and JavaScript to provide information on myself, and my resume, as well as showcase projects/achievements. Incorporating interactive features for enhanced user experience.

TECHNICAL SKILLS

Languages: Java, Python, C, HTML/CSS, SQL, R

Other: Google Workspace (Google Docs, Slides, Sheets), Microsoft Office (Microsoft Word, PP, Excel), PyCharm, IDLE, V.S. Code, Java Eclipse, Oracle SQL Developer, Visio, Android Studio

OTHER SKILLS

- Strong critical and analytical thinking skills
- Ideal observation and listening skills
- Articulate communication skills
- Fluent in speaking Gujarati
- Project management
- Experienced in software testing (e.g. JUnit)