

# PRANAVA SAI MAGANTI

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[Portfolio](#)

## EDUCATION

BS Computer Science | Iowa State University | CGPA: 3.80

2022 - 2026

Related coursework includes Data Structures, Object -Oriented Programming, Python Programming and Discrete Computational Structures. Currently enrolled in Construction of User Interfaces, Software Development Practices, and Computer Architecture

## EXPERIENCE

Undergraduate Teaching Assistant, ISU Department of Computer Science

Jun 2023 - Present

Led weekly office hours and labs for 25+ students, offering homework assistance and help with debugging Python and Java projects. Provided one-on-one guidance during lab sessions on coding key concepts and problem-solving techniques.

Tutor & Supplemental Instruction Leader, Academic Success Centre

Jan 2023 - Dec 2023

Provided academic support to groups of undergraduate students taking General Chemistry courses, clarifying complex topics, in a collaborative learning environment with guided problem -solving and regular feedback sessions.

## PROJECTS

RiffRadar ([GitHub](#)) ([Android App Demo](#))

Jan 2024 - May 2024

An Android ticket management app designed to streamline concert ticket purchasing and event planning. With its user-friendly interface, users can easily discover upcoming concerts, purchase tickets, and organize their concert schedule efficiently.

Cinematic Almanac ([GitHub](#)) ([Web Application Demo](#))

Jan 2024 - May 2024

A dynamic movie website crafted with HTML, CSS, JavaScript, React.js, and Node.js offering movie recommendations across multiple languages from 2001 to 2024, selecting the finest film from each year. Its intuitive interface and sophisticated recommendation engine empower users to explore and discover movies tailored to their preferences.

Personal [Portfolio](#)

Jan 2024

A personal portfolio website developed using HTML and CSS, that showcases professional achievements, skills, and projects in a visually appealing layout. Employed CSS for styling and responsiveness, optimal viewing across devices, and interactive elements for enhanced user engagement, demonstrating proficiency in front-end web development, design aesthetics and usability.

Archive Message Reconstruction ([GitHub](#))

Nov 2023

A Java Based Console Message Decoder program utilizing binary tree data structures to read and process file contents. The application constructs a binary tree to organize data and adeptly decodes and reveals hidden messages on the console.

Interactive Puzzle Game ([GitHub](#))

April 2023

Developed a Java project involving a graphical user interface (GUI) to create a puzzle game akin to 2248. Implemented core logic including grid management, tile manipulation, and game state handling. Used Java's features like arrays, loops, and object-oriented programming to ensure smooth gameplay. Rigorously tested the functionality with unit tests, ensuring reliability and accuracy. Project emphasized individual coding proficiency, problem-solving skills, and adherence to specifications. No reliance on external libraries, solely focused on Java development.

CommandTune: A Python Based Terminal Playlist Player ([GitHub](#)) ([Demo](#))

Dec 2022

This interactive application enables users to manage and play songs from a command-line interface. Features include song selection, pause, replay, and playlist navigation, emphasizing proficiency in Python and user-friendly design in a non-graphical environment.

Dungeon Crawl: A Python Based Terminal Combat Game ([GitHub](#))

Nov 2022

This game features turn-based combat, resource management, and dungeon exploration. Highlights include intricate game mechanics, strategic player choices, and immersive narrative elements in a terminal-based interface.

## SKILLS

- **Programming Languages:** Python, Java, HTML, CSS, JavaScript, React.JS, Node.JS
- **Technical Proficiency:** Object - Oriented Programming, Data Structures, Android App Development
- **Soft Skills:** Communication, Interpersonal Skills, Leadership, Teamwork, Problem - Solving, Analytical & Critical Thinking

## CERTIFICATIONS

Coursera - Google Cybersecurity

Dec 2023 - Present

Currently enrolled in a comprehensive Cybersecurity course focused on modern industry practices and principles. Gaining hands- on experience in Python and SQL for security applications, alongside developing a deeper understanding of network security, threat analysis, and cyber defense strategies.