

# Subrahmanya Sree Pranava Sai Maganti

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## EDUCATION

### Iowa State University of Science and Technology

Ames, Iowa

B.S. in Computer Science & Minor in Data Science

Expected Graduation, May 2026

- **GPA:** 3.80/4.00, Dean's List (Fall 2022, Spring 2023, Spring 2024)
- **Related Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Software Development Practices, Construction of User Interfaces, Computer Architecture and Machine-Level Programming, Discrete Computational Structures

## EXPERIENCE

### Iowa State University Department Of Computer Science

Ames, Iowa

Undergraduate Teaching Assistant for COM S 127 (Python) & COM S 227 (Object-Oriented Programming – Java)

Jun 2023 – Present

- Conducted and led weekly office hours and lab sessions for over 25 students, focusing on debugging and problem-solving in Python and Java.
- Assisted students with homework, providing detailed explanations and guidance to enhance their understanding of programming concepts.
- Offered personalized one-on-one guidance during lab sessions, helping students improve their coding skills and deepen their knowledge of key concepts.
- Graded exams and assignments, ensuring fair and consistent evaluation of students' performance and providing constructive feedback.

### Iowa State University Academic Success Center

Ames, Iowa

General Chemistry Tutor and Supplemental Instruction Leader

Jan 2023 – Dec 2023

- Provided academic support to groups of undergraduate students, fostering a collaborative learning environment by clarifying complex topics and guiding problem-solving sessions.
- Conducted regular feedback sessions to ensure students' understanding, offering continuous guidance and reinforcing key concepts to enhance their academic performance.

## PROJECTS

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

Ames, Iowa

Frontend Team Member

Jan 2024 – May 2024

- Developed an Android 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.
- RiffRadar revolutionizes the way users engage with live music events, providing a seamless platform for concert discovery and ticket management.

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

Ames, Iowa

Team Member

Jan 2024 – May 2024

- Created a dynamic website using React.JS and Node.JS with MongoDB dedicated to offering unparalleled movie recommendations across multiple languages, including English, Hindi, and Telugu. The platform selects the finest film from each year between 2001 and 2024, ensuring a diverse and enriching viewing experience for users.
- Its intuitive interface and sophisticated recommendation engine empower users to explore and discover cinematic gems tailored to their preferences. Cinematic Almanac redefines the way audiences engage with cinema, bridging language barriers to unite movie enthusiasts in a global cinematic journey.

### Archive Message Reconstruction ([GitHub](#))

Ames, Iowa

Individual Contributor

Nov 2023

- Implemented a terminal-based program utilizing binary tree data structures to read and process file contents. Constructed a binary tree to organize data and adeptly decode and reveal hidden messages on the console.
- This project demonstrates proficiency in data structures, file handling, and algorithmic problem-solving in a non-graphical environment.

### Interactive Puzzle Game ([GitHub](#))

Ames, Iowa

Individual Contributor

Apr 2023

- Implemented core logic including grid management, tile manipulation, and game state handling using Java's features like arrays, loops, and object-oriented programming to ensure smooth gameplay.
- Rigorously tested functionality with unit tests, ensuring reliability and accuracy. This project emphasized individual coding proficiency, problem-solving skills, and adherence to specifications.

### Dungeon Crawl ([GitHub](#))

Ames, Iowa

Individual Contributor

Oct 2022

- Developed a turn-based combat game featuring resource management and dungeon exploration. Implemented intricate game mechanics, strategic player choices, and immersive narrative elements in a terminal-based interface.
- This project highlights skills in Python programming, game design, and creating engaging user experiences in a text-based environment.

## ACTIVITIES AND LEADERSHIP

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### Iowa State University Department of Computer Science

Ames, Iowa

Undergraduate Teaching Assistant for COM S 127 (Python) & COM S 227 (Object-Oriented Programming - Java)

Jun 2023 – Present

### Hindu Yuva

Ames, Iowa

Core-Team Member

Aug 2022 – Current

- Member of an organization of 25+ members, hosting religious events, managing a board of executives, and reaching out to the underprivileged community in Ames

## SKILLS

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**Programming:** Java, Python, JavaScript, HTML/CSS, Node.js, React.js, C++, C, Swift (iOS), Kotlin, SQL

**Tools:** Android Studio, IntelliJ, Eclipse, Jupyter Notebooks, Git, Bootstrap, Spring Boot, Visual Studio Code, PyCharm, MongoDB, MySQL Workbench, Xcode, Postman, SF Tools

## CERTIFICATIONS

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### Google Cybersecurity Professional Certificate

Coursera Online

([Certification](#))([Certificates](#))([Course Information](#))

Dec 2023 – May 2024

- Completed an 8-course series designed by Google experts, gaining hands-on experience with Python, Linux, and SQL, while mastering techniques to protect networks, devices, and data from cyber threats using Security Information and Event Management (SIEM) tools.
- Developed skills in identifying and mitigating common risks, threats, and vulnerabilities, preparing for entry-level roles such as cybersecurity analyst and SOC analyst, and aligned with CompTIA Security+ certification standards.

### Meta iOS Professional Certificate

Coursera Online

([Course Information](#))

Jun 2024 – Present

- Currently enrolled in a 12-course series by Meta, learning to create and manage iOS applications using SwiftUI and React Native, and mastering the lifecycle of mobile apps, UI design best practices, and cross-platform app development.
- Engaged in hands-on projects to develop portfolio-ready iOS apps, preparing for entry-level roles such as iOS Developer and Mobile Applications Developer, and earning an employer-recognized certificate from Meta.