

Umesh Sai Teja Poola

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EDUCATION

Iowa State University

August 2022 – December 2025

- B.S. in Computer Science, Minor in Data Science & Applied Artificial Intelligence | GPA: 3.60
- **Awards: Dean's List** (Sophomore, Junior, and Senior Year)
- **Relevant Coursework:** Data Structures, Algorithms, Databases, Operating Systems, Web Development, Machine Learning

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, SQL, R, JavaScript, TypeScript, C, C++
- **Backend Development:** Spring Boot, Node.js, Express.js, RESTful APIs, GraphQL, Firebase
- **Frontend Development:** React.js, AngularJS, HTML, CSS, Tailwind CSS, Android Studio
- **Databases:** MySQL, PostgreSQL, MongoDB, Neo4j (Graph Databases), Firebase Realtime DB
- **Data Structures & Algorithms:** Arrays, Linked Lists, Stacks, Queues, Hash Tables, Trees, Graphs
- **Software Tools:** Git, GitHub, GitLab, CI/CD, Microsoft Office, Docker, Bootstrap, Google Cloud

PROJECTS

Autonomous Robotic Chess Player | Python, OpenCV, PyTorch, ROS, Computer Vision

- Worked with a **UR10e robotic arm and Robotiq gripper** to autonomously pick and place chess pieces on a physical board.
- Built a **computer vision pipeline** using OpenCV and deep learning to detect chess pieces, recognize board state, and map coordinates.
- Trained and integrated a **machine learning model** for robust chess piece detection under real-world conditions.
- Connected perception and control systems with the **Stockfish chess engine**, enabling the robot to compute optimal moves and execute them autonomously in real time.

Cyclone Connect | Java, Spring Boot, MySQL, Android Studio

- Built a full-stack campus management application featuring class scheduling, real-time chat, and student wellness tools.
- Designed and implemented scalable backend APIs and database schemas to support multi-role access for students, faculty, and advisors.
- Led backend architecture and API development; recognized as **Best Backend Developer** for performance, reliability, and clean design.
- Managed team coordination, sprint planning, and task distribution; awarded **Best Project Manager** for leadership and execution.

iPhone Store | React, Node.js, Express, MongoDB

- Developed a scalable full-stack e-commerce application with secure checkout, product management, and inventory tracking.
- Implemented RESTful APIs and optimized frontend performance for faster load times and smoother user interactions.
- Focused on clean UI design, scalability, and maintainable code structure.

WORK EXPERIENCE

IT Technician | Iowa State University, Engineering Technology Support | Ames, IA

October 2023 – December 2025

- Utilized MECM to store and manage information related to devices and software for inventory and maintenance tracking.
- Used Active Directory and ASW for network registration of Mac addresses, image deployment, and management of computing devices across campus.
- Assisted faculty with hardware and software troubleshooting, ensuring smooth operation in classrooms and labs.
- Monitored and maintained computer labs, troubleshooting hardware issues, including printers and networking equipment.
- Provided technical support to students, guiding them in software usage and resolving issues during lab hours.

Data Research Analyst Intern | Kingland Systems | Ames, IA

June 2023 – August 2023

- Conducted **large-scale data validation and cleansing**, ensuring business-critical **legal and operational data integrity**.
- Collaborated with cross-functional teams to **integrate data insights into dashboards and business intelligence tools**.
- Developed **visualizations and detailed reports** for stakeholders, improving **decision-making with data-driven insights**.

LEADERSHIP ROLES

DIS Team Leader | Iowa State University, New Student Services | Ames, IA

August 2023

- Provided mentorship and leadership to 20 new students during university orientation, helping them navigate their first days on campus.
- Directed collaborative efforts across diverse teams to successfully deliver key orientation events, boosting student participation and engagement.

Web Developer, AI & ML Club – Iowa State University

January 2024 – December 2025

- Developed and maintained the club's **website and web applications**, enhancing engagement and resource accessibility.
- Implemented **interactive dashboards and event management features** for better communication with members.
- Integrated **AI-powered features** to showcase ML models and research projects on the club's platform.