**Manoj Madduri**

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🔗 [LinkedIn](https://www.linkedin.com/in/manoj-madduri/) | 💻 [GitHub](https://github.com/manojmadduri)  
📍 Based in the U.S.

**🎓 Education**

**Master of Science in Computer Information Systems (Magna Cum Laude)**

**Christian Brothers University – Memphis, TN**  
**Aug 2021 – Dec 2022 | GPA: 3.54**

* Completed coursework in:
  + **Management of Information Systems** (A)
  + **Software Programming** (A)
  + **Professional Seminar / Technical Communication** (A)
  + **Data Visualization** (A)
  + **Operations Research** (B)
  + **Supply Chain Analytics** (B)
  + **Database / Big Data Management** (A)
  + **Data Science** (B)
  + **Computer Networks / Cyber Security** (A)
  + **Computer Information Systems Capstone Project** (A)
  + **Strategic Management in a Tech Environment** (B+)
* **Capstone Project:** Payroll Management System
  + Developed a scalable, secure payroll management system using **Java Spring Boot (backend)** and **React (frontend)**.
  + Implemented secure user authentication and role-based access control.
  + Optimized data management and reporting with **PostgreSQL**.
  + Supervised by **Professor Harsh Chandra Nair**.

**Bachelor of Technology in Electrical and Electronics Engineering**

**NRI Institute of Technology – Andhra Pradesh, India**  
**May 2014 – Sep 2017 | Percentage: 68%**

* Gained foundational knowledge in **circuit design, digital electronics, and control systems**.
* Completed final year project on **Renewable Energy Systems**, exploring efficient energy conversion.

**🔬 Research Interests**

* Cloud-native data systems and distributed computing.
* Machine learning for predictive analytics and anomaly detection.
* Scalable AI systems and intelligent data management.
* Real-time systems and edge computing.

**💼 Professional Experience**

**Full Stack Developer – Mankind America- U.S. (Jan 2023–Present)**

* Designed and developed scalable cloud-based data systems using **Python, Flask, and AWS**.
* Optimized large-scale data processing applications with cloud-native technologies.
* Enhanced system security and scalability through secure API design.
* Contributed to real-time data applications, integrating machine learning models for predictive analytics.

**Software Engineer –Kesu Automation- India (July 2018– Dec 2020)**

* Engineered backend components for data-driven applications using **Java**.
* Collaborated on frontend development using **JavaScript frameworks**.
* Implemented secure API integrations and cloud-based deployment strategies.

**📑 Research Experience & Academic Projects**

**Capstone Project: Payroll Management System**

* Developed a secure, scalable payroll management system using **Java Spring Boot (backend)** and **React (frontend)**.
* Implemented secure user authentication, role-based access, and real-time salary calculations.
* Optimized data storage and reporting using **PostgreSQL**.
* Supervised by **Professor Harsh Chandra Nair**.

**AI Memory Clone (Personal Research Project)**

* Built a personal AI assistant with **semantic memory recall, image recognition, and natural language processing**.
* Utilized **Python (backend), React (frontend), SQLite, and face\_recognition** for memory management.
* Experimented with **SentenceTransformer and CLIP** for efficient image captioning and face recognition.

**Stock & Crypto Discord Bot (Personal Research Project)**

* Developed a real-time financial assistant bot using **Node.js, Discord.js, MongoDB**, and API integrations.
* Automated stock and cryptocurrency price tracking, portfolio management, and alert notifications.

**📌 Technical Skills**

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| --- | --- |
| **Category** | **Technologies & Tools** |
| Programming Languages | Python, Java, JavaScript, SQL |
| Cloud & DevOps | AWS (EC2, S3, Lambda), Docker, Jenkins |
| Databases | MongoDB, PostgreSQL, SQLite |
| Web Frameworks | Spring Boot, React, Express.js |
| Machine Learning | Sentence Transformer, CLIP, Scikit-learn |
| Research Skills | Data Analysis, Machine Learning, API Development, Cloud Computing |

**🌐 Certifications & Professional Development**

* **AWS Certified Solutions Architect – Associate (In Progress)**
* Completed multiple online courses on **Cloud Computing, Data Science**, and **Machine Learning**.

**💬 Languages**

* **English (Fluent)**
* **Telugu (Native)**