# Mahendra Krishna Koneru

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## Education

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| **Georgia State University, Atlanta** | **Present** |
| *Master's in Computer Science* | *3.8 GPA* |
| **Koneru Lakshmaiah College of Engineering (KL University)** | **Aug 2020 -May 2024** |
| *Bachelor of Technology in Computer Science* | *8.69 CGPA* |

## Technical Skills

**Languages/Technologies**: Python, Java, C, C++, JavaScript,AWS, Azure, ServiceNow, HTML, Web Development, Swift, iOS, Full-Stack, Backend

**Frameworks**: SpringBoot, Kafka, Elastic Search, React JS, Node JS,Express JS,Lightning Web components(LWC)

## Professional Experience

**Georgia State University** — **Dec 2024 - Present**
*Graduate Research Assistant* — *Atlanta, USA*

- Worked on end-to-end features for the PAWS Portal, using Java, Spring Boot, and PostgreSQL to improve access to academic, financial, and administrative services.
- Built and integrated full-stack functionality with React and REST APIs, covering authentication, course registration, billing, and student records.
- Streamlined workflows by automating backend tasks and simplifying navigation, which improved usability for 50,000+ active users.

**INRY** — **May 2024 - Jul 2024**
*Summer Intern* — *Hyderabad, India*

- Designed and implemented custom ServiceNow modules and scoped applications using ServiceNow Studio enabling enhanced functionality and tailored workflows.
- Created and configured REST APIs and SOAP integrations for seamless communication between ServiceNow and external systems, ensuring robust data exchange and synchronization.
- Developed and optimized Flow Designer workflows and Service Catalog items to automate approval processes and improve service request fulfillment, utilizing Transform Maps for data imports.
- Configured IT Service Management (ITSM) components such as Incident, Problem, and Change Management.

**AICTE - AWS ACADEMY** — **May 2023 - Jul 2023**
*Intern* — *Hyderabad, India*

- Participated in an AICTE AWS Cloud virtual internship, gaining hands-on experience with AWS services such as EC2, S3, and Lambda functions.
- Collaborated with industry professionals to develop solutions for real-world challenges.
- Deployed and managed applications on AWS, showcasing adaptability and continuous learning.
- Benefitted from the mentorship of senior developers, which greatly assisted in understanding and navigating the system's complexities.

## Academic Projects

### MedixaIQ: A Multimodal Chatbot for Medical Classification

*Technologies: Python, LLaMA 3, GPT-3.5, Multilayer Perceptrons (MLPs), Natural Language Understanding (NLU)*

- Developed an interactive chatbot interface allowing users to input text or structured clinical data (e.g., medical history, lab results) for diagnostic analysis.
- Integrated LLaMA 3 and GPT-3.5 for text-based query understanding, leveraging domain-specific fine-tuning on medical datasets (e.g., MIMIC-III).
- Employed multilayer perceptrons (MLPs) to process structured data, enabling accurate multimodal fusion for enhanced medical classification.

### Secure Electronic Voting System

*Technologies: Java, Tomcat, PostgreSQL, REST APIs, TLS/HTTPS, Cryptography (ZKP, Paillier, RSA)*

- Built a full-stack electronic voting system with a web client, Java/Tomcat backend services, and PostgreSQL database to manage encrypted ballots and voter data.
- Implemented security features using Zero-Knowledge Proofs for authentication, Paillier homomorphic encryption for confidential vote aggregation, and RSA blind signatures to preserve voter anonymity.
- Developed secure REST APIs for vote casting and encryption workflows, and integrated TLS/HTTPS to protect all network communications.
- Created a real-time monitoring dashboard to simulate and track attacks such as injection, substitution, and replay, improving transparency and resilience testing.

## Certifications

- AWS Certified Cloud Practitioner (AWS CP)
- ServiceNow Certified System Administrator
- Microsoft Certified: Azure Fundamentals (AZ-900)