

# KARNAM SHYAM

Student, Aspiring Full-Stack Developer Powered by AI/ML and Blockchain Insights

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## Education

**VIT-AP University | Current CGPA : 8.99**

*Integrated MTech in Computer Science*

**Nov. 2021 – present**

*Amaravathi, Andhra Pradesh*

**DR Junior Collage | Marks : 961/1000**

*Intermediate, MPC*

**Aug 2019 - May 2021**

*Vizag, Andhra Pradesh*

## Technical Skills

**Languages:** Python, Java, HTML, CSS, JavaScript, SQL(MySQL, SQLite, PostgreSQL), MongoDB

**Frameworks & Libraries:** Flask, Spring Boot, React, Bootstrap, Hibernate, TensorFlow, scikit-learn, NumPy, Pandas

**DevOps & Cloud Tools:** Git, Jenkins, Docker, GitHub Actions, SonarQube, Maven, AWS, Grafana, Prometheus

**Blockchain Development:** Hardhat, Ganache

## Projects

**NLP-Based Resume Parser | Java, Springboot, Python, NLTK, SpaCy, Flask, REST API**

**May 2024 - Aug 2024**

- Engineered a full-stack application for automated resume parsing, minimizing HR review time by 30 minutes per candidate.
- Integrated OAuth authentication and Spring Security for robust access control.
- Utilized Python (NLTK & SpaCy) for resume text extraction, entity recognition, and categorization, achieving 95% accuracy in candidate skill matching and qualification extraction.
- GitHub - [KarnamShyam1947/resume-parser-nlp](https://github.com/KarnamShyam1947/resume-parser-nlp) | [KarnamShyam1947/springboot-resume-parser](https://github.com/KarnamShyam1947/springboot-resume-parser)

**REST API for Healthcare | Java, Springboot, MySQL, Docker, AWS, SonarQube**

**April 2024 - July 2024**

- Developed a Spring Boot REST API for managing doctor appointments and patient medicine deliveries, improving appointment scheduling efficiency by 25%
- Set up CI/CD pipelines to automate code deployment, ensuring rapid updates and reducing bug fix turnaround time by 30%
- Integrated Prometheus and Grafana for real-time monitoring and alerting on critical conditions, ensuring proactive issue resolution and improving application uptime by 15%.
- Created an AI-powered healthcare chatbot leveraging Large Language Models (LLM) and Retrieval-Augmented Generation (RAG) techniques.
- GitHub - [KarnamShyam1947/springboot-rest-api](https://github.com/KarnamShyam1947/springboot-rest-api)

## Publications

**Transfer Learning for Bird Species Identification**

**Jan 2023 – June 2023**

- Designed an innovative IoT-based solution leveraging deep learning techniques to monitor Bird Species in real-time
- Achieved 95% accuracy across 200 bird classes in a 10,000-image dataset.
- <https://ieeexplore.ieee.org/abstract/document/10142979>

**A Federated Learning Approach for Brain Tumor Classification**

**June 2024 – Jan 2025**

- Implemented the Federated Learning technique in medical department, which enhanced the data privacy
- Achieved 91% training accuracy and 88% test accuracy.
- [https://link.springer.com/chapter/10.1007/978-981-97-8336-6\\_20](https://link.springer.com/chapter/10.1007/978-981-97-8336-6_20)

## Certifications

**Introduction to Hyperledger Blockchain Technologies.** From LinuxFoundationX | [Link](#)

**July 2024**

**AWS Cloud Technical Essentials** from AWS | [Link](#)

**July 2024**

**Introduction to Kubernetes.** From LinuxFoundationX | [Link](#)

**June 2024**