JAGANARUL A

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Professional Summary

AI-driven Java Developer with practical experience in designing and developing intelligent systems, including an AI-powered chatbot and a fraud detection engine integrated into web platforms. Specialized in applying **Natural Language Processing (NLP)** techniques, rule-based logic, and heuristic analysis to build smart, responsive applications. Skilled in **Java**, **Spring Boot**, **RESTful APIs**, and **JSON** for robust backend development, with proficiency in **MySQL**, **JDBC**, and **Hibernate** for efficient data handling.

Well-versed in **HTML**, **CSS**, **JavaScript**, and **Thyme leaf** for web integration of AI services. Familiar with **Git**, **GitHub**, and modern IDEs such as **IntelliJ IDEA**, **Eclipse**, and **VS Code**. Completed a **Java Internship at Zidio Development**, gaining hands-on experience in backend development, API integration, debugging, and performance optimization. Passionate about AI technologies, currently expanding expertise in AI model design, backend automation, and scalable architecture. Strong communicator with proven problem-solving, time management, and collaboration abilities.

Skills

- **Languages:** Java, AI, SQL (MySQL), HTML, CSS, JavaScript
- **Frameworks & Libraries:** Spring Boot, Docker, JDBC, Jupyter LM.
- **AI & Intelligent Systems:** NLP, Basic AI Model Design, JSON-based AI, LLAMA.
- **Backend & APIs:** RESTful API Design, JSON Data Handling, Secure API Integration
- **Tools & IDEs:** IntelliJ IDEA, Eclipse, Visual Studio Code, MySQL Workbench
- **Version Control & Collaboration:** Git (Merging), GitHub , Jupyter Lab
- **Soft Skills:** Strong Communication, Analytical Thinking, Time Management, Team Collaboration
- **Current Focus:** AI-driven Java applications, Spring Boot API development, scalable backend architecture

Experience

Java Intern – Zidio Development (June 2025 – sept 2025)

- Contributed to backend development by implementing and maintaining modules using **Java** and **Spring Boot**.
- Performed debugging, code optimization, and performance tuning to ensure efficient application functionality.
- Assisted in **API integration** and database operations using **SQL** to support core business features.
- Collaborated with senior developers following **Agile methodologies**, gaining exposure to professional software development workflows.

Projects

1. *Online Banking System inbuild AI chatbot*

Technologies*: Java, JSON, NLP, Web Integration*

- Designed and implemented a rule-based, text-driven AI chatbot using Java to simulate real-time banking assistance.
- Utilized JSON for dynamic response handling and structured conversation flow.
- Applied NLP concepts to interpret user queries and deliver context-aware replies.
- Integrated the chatbot into a responsive website interface for interactive banking support.

2. Using AI – Cold Mail Generator

Technologies: Python, LLAMA 3.1, Chromabd, Chatling, JSON, REST APIs

- Developed a generative AI assistant using Meta's **LLAMA 3.1** model for natural language response generation.
- Utilized **Hugging Face Transformers**, **Auto Tokenizer**, and **Text Generation Pipeline** for efficient model handling and inference.
- Enabled **multi-turn dialogue** with **context retention** and dynamic memory management.
- Applied advanced **prompt engineering** techniques for task-specific response control and content filtering.

3. *AI-Chatbot*

Technologies: NLP, python3, RNN, LSTM

- Developed an AI-powered chatbot leveraging NLP, Python, (RNN, LSTM) for contextual conversation handling
- Implemented text preprocessing, intent classification, and dynamic response generation to enhance user interaction
- Integrated chatbot with modular design for scalability and potential deployment in real-time applications

4. *Beyond the Firewall Demystifying Offline Device Security Vulnerability*

Technologies: Embedded Security, Firmware, System Design

- Analyzed and identified physical security vulnerabilities in offline systems.
- Implemented robust protection strategies like secure boot mechanisms and firmware validation.
- Enhanced system resilience through detailed risk assessment and defense architecture planning

Education

Bachelor of Engineering (Computer Science and Engineering)
Priyadarshini Engineering College, Anna University
CGPA: 8.02 | 2020 – 2024

Higher Secondary Certificate (HSC)
Universal Matriculation Higher Secondary School, Jolarpet
Percentage: 61% | 2019 – 2020

Certifications

- **SQL & Relational Databases** – IBM Developer Skills Network (July 2024)
- **Full Stack Web Development** – GUVI (September 2023)
- **Cybersecurity Fundamentals** – Udemy (December 2023)
- **Introduction to Networks** – CISCO Networking Academy
- **TCS iON Career Edge** – Communication, Presentation & Interview Skills (June 2024)
- **Java Programming Masterclass** – Udemy (June, 2025)
- **AI for Everyone** – DeepLearning.AI (Coursera)
- **Prompt Engineering for LLMs** – DeepLearning.AI (Coursera) *(highly relevant to LLAMA)*
- **Introduction to Generative AI** – Google Cloud Skills Boost

Additional Information

- Open to relocation and available for immediate joining.
- Actively expanding expertise in **Artificial Intelligence**, focusing on chatbot development and generative AI technologies.
- Continuously upskilling in **Spring Boot** and **RESTful API** development to strengthen backend capabilities and scalable architecture design.