# **Chandrasen Reddy Bireddy**

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# [**https://chandrasenbireddy.github.io/index.html**](https://chandrasenbireddy.github.io/index.html) **|** [**https://www.linkedin.com/in/chandrasenbireddy/**](https://www.linkedin.com/in/chandrasenbireddy/)

## **Skills:**

**Languages:** Java, Python, JavaScript, TypeScript, SQL

**AI & Machine Learning Frameworks:** Deep Java Library (DJL), Deeplearning4j (DL4J), WEKA, Apache Spark MLlib, MOA, TensorFlow (Java API)

**Technologies & Tools:** Spring Boot, Hibernate, Angular, Node.js, Express, MongoDB, Docker, Git, Jenkins, RESTful APIs, Microservices, Agile methodologies

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## **Work Experience:**

### **CBL Solutions, Irving January 2023** — **September 2024**

### **Software Engineer – AI & Java**

* Developed and integrated deep learning models using Deeplearning4j (DL4J) and Deep Java Library (DJL) into enterprise applications, enabling predictive analytics and intelligent decision-making.
* Leveraged Apache Spark MLlib for large-scale data processing, enhancing data analysis performance by 40%.
* Led the migration of legacy systems to cloud platforms, implementing AI-driven solutions that reduced infrastructure costs by 15%.
* Designed and implemented modular RESTful services using Java and Spring Boot, improving application scalability and maintainability.
* Enhanced code quality and test coverage by 35% through rigorous unit testing with JUnit and Mockito.
* Java, Spring Boot, DL4J, DJL, Apache Spark MLlib, Hibernate, SQL, RESTful Services, JUnit, Mockito.

**Stardust Ventures, Visakhapatnam May 2019** — **October 2019**

### **AI Software Engineer Intern**

* Contributed to the development of basic machine learning models in Java for data classification and analysis.
* Assisted in building and optimizing web applications using Java, JSP, and Servlets, enhancing user experience and application performance.
* Worked on database schema design and optimized data retrieval processes, improving query performance.
* Participated in peer code reviews, ensuring high code quality and fostering knowledge sharing within the team.
* Key Technologies: Java, JSP, Servlets, SQL, Basic ML Algorithms, Database Design.

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## **Education:**

**Master’s Degree in Computer Science, Houston January 2021 — December 2022 University of Houston-Clear Lake**

Relevant Coursework: Advanced Operating Systems, Database Management Systems, Design & Analysis of Algorithms, Machine Learning, Robotics, Computational Bioinformatics.

**Bachelor’s Degree in Computer Science, Visakhapatnam August 2016 — May 2020 GITAM Deemed University**

Relevant Coursework: Programming with JAVA, Artificial Intelligence, Machine Learning, Data Structures, Cloud Computing.

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## **Project work:**

**AI-Driven Inventory Management System**

* Integrated predictive models using Deeplearning4j (DL4J) for demand forecasting, and optimizing inventory levels.
* Developed and deployed a cloud-based Inventory Management System using Spring Boot, enhancing operational efficiency by 30%.
* Implemented secure OAuth2-based authentication and MySQL for robust data storage and access.

**Automated Quality Inspection System**

* Computer Vision: Developed a computer vision model using DJL to detect defects in manufactured products with over 95% accuracy.
* Utilized OpenCV for pre-processing images and feature extraction, improving model performance.
* Integrated the model into a Java-based application for real-time quality inspection on the production line, reducing manual inspection time by 40%.