SRINIJA DHARANI

+1 (650) 705-9759 | srinijadharani1@gmail.com | https://www.linkedin.com/in/srinijadharani/ | https://github.com/srinijadharani

EDUCATION

FLORIDA STATE UNIVERSITY *Tallahassee, FL*
Masters in Computer Science – GPA 3.8 *Aug 2023 – May 2025*

SKILLS

Programming & Scripting Languages: Java, C, Python, JavaScript, HTML5/CSS3, Oracle, SQL
Frameworks, Libraries, and Tools: React.js, Node.js, Express.js, Django, TensorFlow, PyTorch, Keras, OpenCV, scikit-learn, Git/GitHub, Linux, DevOps, LangChain, Bedrock Agent Framework, RAG Pipelines, Unit Testing, PyTest, APIs, CI/CD
Data and Cloud Technologies: AWS, AWS Lambda, AWS SageMaker, AWS S3, Snowflake ML, LLMs, Microsoft Azure, Relational Databases, Distributed Systems, Prompt Engineering, Soda Core

WORK EXPERIENCE

INOVALON *USA (Remote)*
Software Development Engineer – 1 *Jun 2025 – Present*

- Debugging and resolving production issues in Unify Optimizer, a platform that flags false positives in medical records, restoring accuracy across 5+ critical workflows through in-depth root cause analysis and cross-team collaboration.
- Enhancing Unify Optimizer with an LLM-driven pipeline built on AWS Bedrock (Claude 3 Haiku) to extract and validate medical conditions from unstructured clinical text, map ICD-10/HCC codes, and generate annotated medical charts, achieving ~40% increase in condition extraction accuracy.
- Led the design and implementation of an AWS-based agentic AI framework that autonomously detects and suggests corrections for data inconsistencies in healthcare claims, enabling validation of 8+ field types across 100M+ records.
- Engineered a high-throughput preprocessing and address-parsing pipeline in Snowflake, combining rule-based logic and NLP techniques to standardize U.S. addresses, improving parsing accuracy by 40%+ over 20M+ claims.

FLORIDA STATE UNIVERSITY *Tallahassee, FL*
Research Assistant *Aug 2024 – May 2025*

- Co-authored the preprint: Teja Potu … **Srinija Dharani** … Xian Mallory, SCGclust: Single Cell Graph clustering using graph autoencoders integrating SNVs and CNAs, bioRxiv, (2025), demonstrated up to 70% higher V-measure compared to baseline methods by integrating SNV and CNA signals for single-cell clustering across 8 simulated and 1 real dataset.

INOVALON *USA (Remote)*
Software Engineer Intern *Jun 2024 – Aug 2024*

- Enhanced the ML capabilities of the Provider Workforce Management System by tuning hyperparameters, reducing the prediction error rate by 0.5% within one week.
- Executed 50+ test cases to ensure the robustness and reliability of Unify Optimizer.
- Improved the performance of Unify Optimizer, increasing the accuracy of anomaly detection by 4% through troubleshooting, testing and code optimization.
- Migrated existing codebase to a scalable AWS Lambda environment, ensuring efficient model deployment and reduced computational overhead for over 6,000 lines of code.

TATA ELXSI *India (Remote)*
AI Intern *May 2022 – Aug 2022*

- Engineered the IRIS system to detect anomalies in vaccine bottle seals, ensuring the safety and effectiveness of manufacturing vaccine bottles for over 100,000 end-users.
- Achieved a ~10% increase in detection precision in industrial environments by embedding advanced AI-based quality control methods into IRIS.

PROJECTS

MULTIPLE DYNAMIC OUTLIER-DETECTION FROM A DATA STREAM *Aug 2023 – Dec 2023*

- Programmed the MDUAL algorithm in Java using Eclipse, based on the work by Yoon, achieving a 92.3% increase in effectiveness compared to traditional brute-force outlier detection methods.
- Conducted comprehensive performance tests, demonstrating that the new algorithm operates 216-221 times faster and uses 11-13 times less memory than existing state-of-the-art outlier detection algorithms.

CHATGPT USAGE INTELLIGENCE: DEVELOPER BEHAVIOR ANALYSIS *Aug 2023 – Dec 2023*

- Spearheaded a team of 3 to extract actionable insights from the DevGPT dataset, which included over 17,000 records of developer interactions with ChatGPT, driving data-informed improvements and strategic decision-making.
- Analyzed and interpreted user query data to identify patterns between complexity and ChatGPT interaction length using NLP; providing critical insights that guided AI optimization strategies; revolutionized prompt formulation techniques.