# Jaswanth Nalluri

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## SUMMARY

Software Engineer and Data Scientist with expertise in AI/ML, cloud computing, and full-stack development. Experienced in delivering results by optimizing workflows and reducing costs with AWS and AI technologies. Skilled in diving deep to solve complex problems and inventing and simplifying solutions. Known for earning trust through collaboration and mentorship. Continuously learning and being curious to drive impactful solutions.

## EDUCATION

**Texas A&M University - Kingsville**                                                              KINGSVILLE, TX

*Masters of Sciences in Engineering, Computer Science*                                   *, Jan. 2024 – Dec 2025* **Coursework**: Database and Machine Learning, Numerical Mathematics for Computing,  Cloud Computing, Computer Vision and Image Processing (CVIP), Statistical Learning, Data Mining, Cyber Security

KL UNIVERSITY – INDIA

Bachelor's in Electronics and Communication Engineering                                   July 2019  - June 2023

## TECHNICAL SKILLS

**Languages**:  Python, Java, C/C++, SQL,  HTMLCSS, JavaScirpt
**AIML**: TensorFlow, PyTorch, Keras, Scikit-learn, OpenCV, LLMs, Generative AI, Transformers, RAG
**Cloud & DevOps**:  AWS , Git, Docker, Jenkins, Kubernetes, Terraform, CI/CD
**Tools & Frameworks** :  Spring Boot, Angular, React, Nodej˙s, Kafka, Elasticsearch, GraphQL, Spring, Swagger, Postman
**Miscellaneous**: Agile SDLC, Design Patterns, System Design, Debugging, Root Cause Analysis, Unit Testing, Data Structures & Algorithms,Automation, Linux, Unix, Strong Communication & Presentation Skills

## EXPERIENCE

**Software  Engineer  Intern**                                                              FEB 2023 – July 2023
*LTI MINDTREE*                                                                              *Hyderabad, India*

- Engineered multi-layered inferencing pipelines, improving system efficiency and reducing cloud costs by 20%.
- Created a full-stack analytics dashboard using React, Flask, and AWS, enabling real-time ad engagement insights and enhancing stakeholder decision-making.
- Gained exposure to large-scale software systems and workflows

## CERTIFICATIONS

- Embedded Systems & Arduino Training

- Linux Basics

- AWS  Machine  Learning  Foundations

## PROJECTS

**Malware scanner for PDFs and office files** / *Full-Stack*                    Feb 2025 – May 2025

➢ This project presents a static analysis-based tool to detect potential malware in PDF, DOCX, XLSX, and PPTX files.
➢ Refined data pipelines to accelerate the processing of large research datasets, driving enhanced research productivity and faster insights for academics.

**Stock Price Predictor** / *LSTM(RNN)*

➢ Built an LSTM-based stock price forecasting model, enhancing market prediction accuracy with deep learning techniques.
➢ Fine-tuned hyperparameters to reduce prediction errors and ensure the model's robustness in real-world financial markets.

**Blood Buddies** / *App Development*

➢ Created an Android application using Firebase to connect blood donors and recipients during emergencies, ensuring privacy and data security.
➢ Implemented encryption and robust data security protocols to safeguard user information and ensure trust.

**Fire Alarm System Using Arduino | Arduino**

➢ Designed and implemented a real-time fire detection system
➢ Used temperature and smoke sensors for continuous monitoring
➢ Programmed Arduino to activate alarms when safety thresholds were exceeded
➢ Improved reliability through sensor calibration and testing

## CONTRIBUTIONS AND ACCOMPLISHMENTS

• Secured badges in Problem Solving, C++, Java, Python, SQL, C Language, Days of Code, and SQL, reflecting a comprehensive skill set across multiple programming domains.

• Attained verified certifications in Python, Java and C++, underscoring a strong foundation in these programming languages.