

# AMRUTHA RAJSHEKER



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Chennai, India

## SUMMARY

A results-driven professional specializing in IoT Technologies, Artificial Intelligence (AI), and Cybersecurity, with hands-on experience in Generative AI, Reinforcement Learning (RL), and Real-Time Data Visualization. Proven ability to lead end-to-end project development, from ideation to execution, delivering secure and scalable solutions using platforms like AWS, Google Cloud, and IBM Mainframes. Adept at leveraging advanced tools such as LoRa Communication, AES/RSA encryption and TensorFlow to solve complex problems. Committed to innovation, collaboration, and the continuous pursuit of excellence.

## ACCOMPLISHMENTS

- IBM Z Datathon 2024 - Global Winner (Third Position) - Project Architect & Core Developer
- Kavach Hackathon 2023 - In-Person Winner (Second Position) - Project Architect & Core Developer
- Cyber-X National Hackathon 2023 - Finalist (Top 5) - Project Architect & Core Developer
- Karnataka Police Datathon 2024 - Finalist (Top 5) - Project Architect & Core Developer

## WORK EXPERIENCE

### HACKATHONS

- |  |                              |  |
|--|------------------------------|--|
| • Cyber X Hackathon 2023 – VIT Chennai | • Smart India Hackathon 2023 | • Hack Hustle 2024                     |
| • E-Yantra 2023                        | • Amazon ML Challenge 2024   | • IBM-Z Datathon 2024                  |
| • IBM-Z Datathon 2023                  | • CTS Case Studies 2024      | • Karnataka State Police Datathon 2024 |
| • KAVACH Hackathon 2023                | • GUVI - SAWIT AI 2024       |  |

### LEADERSHIP ROLES

- Tech Society : Intelligent Systems Community - Joint Secretary August 2023 – August 2024 (1 year 1 month)
- Robotics Club Coordinator September 2023 – August 2024 (1 year)
- Innovation Club Coordinator September 2023 – August 2024 (1 year)
- Drestein 23 at Saveetha Engineering College. - Organized an IoT based Hackathon
- Served as a workshop host and speaker, delivering a presentation on AI and Robotics to an audience of 120 participants.

### INTERNSHIPS

- |  |  |
|--|--|
| • Cyber Security   |  |
| NSIC Technical Services Centre - Arjun Vision Tech Solutions   | June 2024 - July 2024 (1 months)       |
| • Internet of Things   |  |
| Madras Institute of Technology - Center for Internet of Things | January 2024 - February 2024 (2 weeks) |

## SKILLSET

### Technical Skills

- Programming Language: C, Java, Python
- Tools & Platforms: Git, VS Code, Arduino IDE, Colab, IBM mainframes
- Cloud Platforms: AWS, Google Cloud
- Cybersecurity: AES Encryption, RSA Encryption, Intrusion Detection Systems (IDS), IoT Security, Data Protection
- AI: GenAI, ML, RL, DL, NLP, Model Training & Tuning
- IoT & Real-Time Systems: Real-Time Data Visualization, Edge Computing, Embedded Systems, LoRa Communication
- Database: SQL, MongoDB, DB2
- Operating Systems: Windows, Linux
- Other Skills: Experienced Prompt engineering for core functions

### Project Management & Collaboration

- Project Architect / Manager
- Team Leadership
- Cross-functional Team Collaboration
- Agile Methodology
- Stakeholder Management

### Soft Skills

- Problem Solving
- Critical Thinking
- Communication Skills
- Adaptability
- Collaboration

## PROJECTS

- AI-Driven Banking Fraud Detection and Prevention System Using Generative AI
- AI-Driven Product Attribute Extraction for E-commerce Using Image Data
- AI-Driven TIC-TAC-TOE Game
- Advanced CCTV Analytics App for Real-Time Incident Detection and Alert Generation
- FIMAP: Fire Incident Monitoring and Alert Platform
- Generative AI-Based Medical Report Summarization for Enhanced Clinical Communication
- Intelligent Deepfake Detection for Secure Media Authenticity
- QUILL - Quick Universal Instant Language Link
- Reinforcement Learning Based Encryption and LoRa Communication for IoT Security
- Secured IoT-Driven Gas Monitoring with Real-Time Data Visualization
- Secure File Transmission Using AES and RSA Cryptographic Algorithms

CERTIFICATIONS

- AWS Cloud Essentials - Knowledge Badge Readiness Path
- Blockchain Council - CRYPTO 101
- Google Cloud Career Readiness - Associate Cloud Engineer Track
- IBM Z Day 2023, 2024 - {IBM Z Skills Certificate, Data & AI Skills Certificate, Cyber Security Skills Certificate}
- IBM Z XPLORE CONCEPTS - Practical Experiments on Mainframe Systems
- J.P. Morgan - Software Engineering Job Simulation
- MongoDB Basics - ICT Academy Learnathon
- UiPath Academy - Automation Explorer Training

CERTIFICATION PORTFOLIO LINKS

- [Google Cloud Skills Boost](#)
- [Microsoft Learn](#)
- [Credly](#)

EDUCATION

- |   |                       |
|---|-----------------------|
| • Bachelor of Engineering in Computer Science - Internet of Things<br>Saveetha Engineering College (Anna University) , Chennai Tamil Nādu | July 2022 - July 2026 |
| • Higher Secondary (Class 12)<br>Chennai Public School , Chennai Tamil Nādu   | April 2022            |
| • Secondary (Class 10)<br>Sri Chaitanya Techno School , Chennai Tamil Nādu  | April 2020            |

CONFERENCES

- |                               |                         |
|-------------------------------|-------------------------|
| • IBM Z day 2023 , 2024       | • TNGIM 2024            |
| • IBM technical Exchange 2024 | • UMGAIN TN 2024 , 2025 |

LANGUAGES

- |           |         |          |         |
|-----------|---------|----------|---------|
| • English | • Hindi | • Telugu | • Tamil |
|-----------|---------|----------|---------|