

# RAMACHANDRA YERRAMSETTI

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## SKILLS

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**Programming** : JavaScript, Python, C, Java.  
**Web Development** : HTML/CSS, ReactJS, NodeJS.  
**Containerization** : Docker, Kubernetes  
**Databases & Cloud** : MySQL, Oracle, MongoDB.  
**DevOps** : Jenkins, AWS .  
**Version control** : Git, GitHub.  
**Libraries** : Pandas, NumPy, Scikit-Learn.

## EDUCATION

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**University of Connecticut** 2023 Aug – 2025 May  
Master of Engineering, Computer Science  
Storrs, CT  
**Coursework:** Algorithms and Complexity, Machine Learning, Computer Networks

**K L University** 2015 Aug – 2019 May  
Bachelor of Engineering, Electrical and Electronics  
Vijayawada, India  
**Coursework:** Algorithms & Data structures, Object-oriented Programming, Computer Architecture

## EXPERIENCE

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**Software Engineer** 2022 June– 2023 July  
TATA Consultancy Services  
Hyderabad, India

- Coordinated with the development team and developed a Python script for concurrent health checks and load balancing on 30+ SAP production systems, reducing daily monitoring time from 2 hours to 30 minutes.
- Achieved substantial performance optimization by addressing bottlenecks at both the instance and database level, significantly reducing the run time of over 100 background jobs.
- Integrated a QR code mobile ticket scanning system into the SAP infrastructure of SNCB International (Belgian Train).

**Software Engineer** 2019 July– 2022 June  
Cognizant Technology Solutions  
Chennai, India

- Created a Python-based script enabling the seamless transport of change objects from the development environment to testing, quality, and production environments.
- Established a print server for a new Merck Animal Health plant in Amsterdam, seamlessly integrating over 100 printers into the SAP platform in collaboration with Hewlett Packard and senior SAP consultants.
- Trained in SQL and Oracle database platforms and received 2 months of Full Stack development training, culminating in the creation of a portfolio page at [ramchandra3101.github.io](https://ramchandra3101.github.io)

**Software Engineering Intern-Internet of Things** 2017 May– 2017 July  
Axelta Systems  
Hyderabad, India

- Developed a Python script on a Raspberry Pi platform to ensure 100% data retrieval from various sensors.
- Leveraged MathWorks ThingSpeak for real-time data integration, processing, and analysis, resulting in a 50% reduction in Storage costs.

## ACADEMIC PROJECT EXPERIENCE

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### **Predicting NFL outcomes based on Madden ratings** | *Python, sci-kit-Learn, TensorFlow*

- Created a Python-driven ML model for NFL game outcome predictions using last 20 years datasets.
- Improved model accuracy by 40% through the integration of curated datasets, with particular emphasis on player injury information.

### **Programmable Controller For BLDC Motors** | *Python, Soloppy*

- Implemented sensorless BLDC motor control code in Python for Raspberry Pi, enhancing motor speed by 20% for UAV applications, enabling lifting of 10-liter payloads.