Ramachandra Yerramsetti

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EDUCATION

- **University of Connecticut** — Storrs, CT
  Master of Engineering in Computer Science — *Aug. 2023 – Dec. 2024*
  Coursework: *Algorithms & Complexity, Data Mining, Big Data Analytics* — *GPA: 3.5*

- **Koneru Lakshmaiah (Deemed to be) University** — Vijayawada India
  Bachelor of Engineering in Electrical and Electronics — *Aug. 2015– Jun. 2019*
  Coursework: *Power Electronics for Renewable Energy , Microprocessors and Microcontrollers* — *GPA:3.4(8.8/10)*

EXPERIENCE

- **Tata Consultancy Services** — Hyderabad, India
  Software Engineer — *Jun. 2022 - July. 2023*
  - **Reusable Components**: Increased website speed and performance by 40% by developing reusable components with React for 10+ company websites.
  - **API**: Developed app integrations using REST and SOAP APIs for features like Google Maps, social media logins, payment processors, and other services.
  - **Web Development**: Achieved 100% client satisfaction by designing website structures and page layouts that precisely met user requirements.
  - **Single page app**: Transformed a multi-page user experience into a single-page application (SPA), boosting customer engagement by 10% through seamless navigation and reduced loading times.

- **Cognizant Technology Solutions** — Chennai, India
  Software Engineer — *Jul. 2019 - May. 2022*
  - **Monitoring System**: Achieved 75% reduction in monitoring time by architecting an advanced Python-based health check monitoring system for over 30 SAP production environments.
  - **Performance Tuning**: Fine-tuned system efficiency by addressing performance bottlenecks, achieving a marked decrease in execution time for over 100 background processes.
  - **Cybersecurity**: Implemented an algorithm for detecting components at risk of cyber attacks, enhancing system security by identifying vulnerabilities.
  - **Changes Movement**: Developed a streamlined process for the efficient transfer of change objects across development, testing, QA, and production environments, enhancing project agility and deployment speed by 40%.
  - **System installation**: Launched a Linux-based print server for Merck Animal Health's Amsterdam site, seamlessly integrating over 100 printers with SAP in collaboration with Hewlett Packard.

- **Axelta Systems** — Hyderabad, India
  Software Engineer Intern — *Summer 2017 and 2018*
  - **Internet of Things**: Developed a Python script on a Raspberry PI platform to ensure 100% data retrieval from various sensors.
  - **Cloud Dashboard**: Created a cloud dashboard for real-time data integration, processing, and analysis resulting 50% reduction in storage costs.

PROJECTS

- **Cyberinfrastructure Competition-1st Prize**: Achieved first place in the Cyberinfrastructure Competition with a cross-disciplinary team for predicting Citibike usage in Manhattan using a GRU model and GIS analysis.
- **NFL Outcome Prediction**: Crafted a ML model for NFL predictions, enhancing accuracy by 40% with enriched player data from two decades.
- **KLAD(E-commerce clothing website)**: Built a MERN stack-based e-commerce website for the apparel startup KLAD, enhancing the online shopping experience.
- **Student Mental Health Analysis**: Led a project to predict UConn students' mental health outcomes based on social media usage and facilitating support services.
- **US pollution prediction using AQI**: Developed a predictive model utilizing deep learning to forecast US pollution levels for individual counties based on the Air Quality Index, achieving a commendable 70% accuracy rate.

TECHNICAL SKILLS

- **Languages:** C++, C , Python, Javascript, NoSQL, Java, Assembly
- **Web Developemnt**: React, Node,HTML/CSS
- **Version Control**: Git, GitHub
- **Python Libraries**: Pandas, Scikit-Learn, NumPy, Tensorflow
- **Database & Cloud**: MySQL, Oracle, MongoDB