

# Chudamani Kiran Aditya Koppusety

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## WORK EXPERIENCE

### Systech Solutions

Chennai, India

Software Engineer

2021 - 2023

#### API Development and Performance Optimization

- Architected and deployed over 20 high-performance, scalable REST APIs integrating machine learning models, resulting in a 35% performance boost for the "FOX - Upfront Planning Tool" and enhanced decision-making processes.
- Refined SQL queries and database schema, streamlining Python code to reduce API response times by 30%, driving operational efficiency.
- Fortified web applications against vulnerabilities by implementing robust input validation, parameterized queries, and conducting comprehensive secure code reviews, mitigating risks and ensuring compliance.
- Bolstered data integrity and regulatory compliance by implementing access controls, logging, and monitoring mechanisms across applications and data pipelines.

#### Dynamic Report Generation and Data Preprocessing

- Engineered Python functions to generate over 30 comprehensive reports and simulations, providing critical insights that empowered data-driven decision-making and strategic planning for leadership.
- Optimized data preprocessing pipelines by leveraging NumPy and Pandas, enabling seamless analysis and reporting on datasets up to 50GB, resulting in a 25% reduction in data processing time and improved operational efficiency.
- Implemented data masking and encryption techniques, safeguarding sensitive information and ensuring data privacy and security during reporting processes.

#### Data Quality Assurance and Automation

- Analyzed UI testing results across environments, identifying and resolving over 100 usability issues and performance bottlenecks for the "FOX-Upfront Planning Tool."
- Engineered data-driven algorithms and prototypes using Pytest, automating regression testing procedures and analyzing datasets up to 20GB to detect software defects and inconsistencies.
- Conducted regular security audits and penetration testing, proactively identifying and mitigating potential vulnerabilities, ensuring the integrity of applications and data pipelines.
- Streamlined ETL processes by automating data extraction, transformation, and loading using Python scripts, PySpark, and Informatica, driving 40% efficiency gains and reducing manual efforts.

*Received a **CERTIFICATE OF APPRECIATION** for extraordinary performance and dedication towards the "FOX - Upfront Planning Tool" Project .*

### Nxtwave Technologies

Hyderabad, India

Full Stack Developer Trainee

2020 - 2021

- Acquired hands-on experience with Industry 4.0 concepts and technologies, developing applications leveraging IIoT platforms, machine learning models, and cloud computing to enable real-time monitoring, predictive maintenance, and process optimization.
- Designed and deployed 3 web applications using the MERN stack, incorporating features like user authentication, real-time updates, and data visualization features.
- Conducted comprehensive security assessments and implemented secure coding practices such as input validation, encryption, and access controls, enhancing application security and ensuring compliance with industry standards such as OWASP Top 10.

## EDUCATION

### UNIVERSITY OF CENTRAL MISSOURI

Lees Summit

MS - Cybersecurity and Information Assurance.

GPA: 3.6/4.0

### CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

Andhra Pradesh, India

Bachelor of Technology in Mechanical Engineering.

GPA: 8.6/10

## SKILLS & INTERESTS

**Skills:** Python, JavaScript, Node.js, React.js, PostgreSQL, HTML, CSS, MongoDB (NoSQL), Microsoft Office(Excel, Powerpoint), Informatica, PySpark, AWS, Azure, Jenkins, Jira, Git, Data Science, Data Visualization, OpenAI, Machine Learning, RESTful APIs, Tableau, Docker, Splunk, Creative.

**Interests:** Instagram, Facebook, Netflix, YouTube, Twitter, SpaceX, Social Media, Problem Solving, Analytics, Team Player, Tech Trends, Fitness, Food, Self Improvement.