

RANGAPURAM DEEKSHITH SAGAR

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SUMMARY

Senior Software Engineer with expertise in designing technical and strategic solutions, specializing in cloud platforms like AWS, Azure, and GCP. Experienced in software development, building scalable microservices and API architectures, with a strong focus on performance optimization and risk management. Proficient in NoSQL databases, including Cassandra, and Kafka for real-time data streaming in finance and other domains. Demonstrated leadership in agile methodologies, driving innovation, infrastructure optimization, and supporting object-oriented design for complex systems.

EDUCATION

University at Buffalo, New York

(Master of Science in Computer Science- AI/ML)

Aug. 2023-Dec. 2024 (expected)

CGPA: 3.8/4(till now)

Institute of Aeronautical Engineering (affiliated to JNTU, Hyderabad)

Aug. 2016 - May. 2020

(Bachelor of Technology in Computer Science and Engineering)

CGPA: 8.68/10

TECHNICAL SKILLS

- **Programming Languages:** Python, R, Java, C/C++, SQL, Bash, MySQL, NoSQL, Shell Scripting
- **Machine Learning & AI:** Scikit-learn, TensorFlow, PyTorch, Keras, OpenCV, NLTK, Hugging Face, Transformers, LSTMs, CNNs, RNNs, XGBoost, LightGBM, Gradient Boosting, Reinforcement Learning.
- **Data Science & Analytics:** Pandas, NumPy, Matplotlib, Seaborn, Plotly, Data Wrangling, Data Visualization, EDA.
- **NLP & Text Processing:** spaCy, BERT, GPT, T5, Word2Vec, Sentence Transformers, Codellama, CodeQL, TextBlob.
- **Developer Tools:** Git, Docker, Kubernetes, Jenkins, JIRA, VSCode, Anaconda, AWS SageMaker, Apache Airflow, MLflow
- **Cloud Platforms:** AWS (EC2, S3, Redshift, Lambda), GCP, Azure, MuleSoft, Salesforce, Firebase, Heroku.

PROFESSIONAL EXPERIENCE

Research Assistant (GenAI Lab), University at Buffalo

Aug. 2024 - Present

- Developing an **LLM (Graph CodeBert)** based model trained on **CWE Dataset** to enhance ability to identify complex **security vulnerabilities** and deliver recommended code fixes to Enterprise Applications detection and remediation accuracy by **30%**.
- Enhanced security analysis by integrating **Transformers** into the 'Sven' security tool, boosting **vulnerability assessments**.

Software Developer (Intern), The Integrity Company, California

May. 2024 – Aug. 2024

- Designed and developed an **AI chatbot** and a **React** and **Django** website to manage and place jobs for customers.

Research Assistant (AI Security Lab), University at Buffalo

Feb. 2024 - Apr.2024

- Pioneered the integration of Transformers to enhance **Sven's** ability to identify complex security vulnerabilities.
- Utilized **LLMs** to boost **Sven's** analytical capabilities by **20%**, ensuring security in **vulnerability assessments**.

Senior Lead Engineer / Software Engineer, NTT Data (Apisero Inc), India

Aug. 2020 – Aug. 2023

- Engineered a **MuleSoft - Datadog** connector for **Indeed** job portal, boosting efficiency by **50%**, saving **\$300K/yr**.
- Led modernization of 30% of legacy APIs to **Salesforce UI**, enhancing integrations and testing across **Workday**.
- Automated deployment processes by implementing **CI/CD** pipelines for apps using **Gitlab** and **Azure**.
- Streamlined cloud-based integrations using **MuleSoft** at **Hallmark Inc**, elevating **Salesforce-MSSQL** synchronization efficiency by **80%** and saving **\$100K/yr**.
- Refined **Dataweave** and **Python** scripts, reducing production errors by **20%** and strengthening **security** protocols.

ACADEMIC PROJECTS

Deep Fake Detection System | PyTorch, ResNet, Ensemble Models

Mar. 2024

- Designed and continually enhanced a model to detect **manipulated media**, supporting **integrity** in digital content.

Autoencoder for Anomaly Detection | Python, Autoencoders

Jan. 2024

- Automated defect detection in manufacturing, **reducing manual inspection** and **improving detection** efficiency by **30%**.

Time-Series Forecasting with RNNs | Python, RNN, LSTM

Nov. 2023

- Developed models to predict energy **usage patterns**, aiding utility companies in **resource** and **grid optimization**.

Sentiment Analysis Using LSTM | Python, LSTM, NLP

Oct. 2023

- Analyzed customer **sentiment** from social media data, achieving over **90% accuracy** to improve marketing strategies.

ACHIEVEMENTS AND CERTIFICATIONS

- Earned **3X MuleSoft certified (MCIA, Developer, MCPA)** focused on microservices and **integrations**.
- **Smart India Hackathon:** Directed a team to build an ML web App with Prophet for forecasting cotton prices.