

DEEKSHITH SAGAR RANGAPURAM

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SUMMARY

Senior Software Engineer with expertise in designing technical solutions using AWS services like S3, Lambda, and CloudFront for website hosting and performance optimization. Proficient in React Native, Node.js, JavaScript, and Redux, with experience in building mobile apps and front-end interfaces. Strong background in DevOps, continuous integration, and test automation to meet SLA (Service Level Agreements) standards. Adept at collaborating with product managers and resolving issues through innovative problem-solving in information systems and big data environments. Excellent communication skills and experience with Confluence and GitHub for project management and development.

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)

2016-2020

(Bachelor of Technology in Computer Science and Engineering)

CGPA: 8.68/10

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C/C++, C#, .net, Golang, MySQL, Ruby, TypeScript, R, Go, SQL
- **Web Technologies:** HTML/CSS, JavaScript, NodeJS, React, React Native, JSON, YAML, XML, Three.js, RESTful APIs.
- **Developer Tools:** Postman, GitLab, Jenkins, Jira, Maven, GitHub, JUnit, Docker, OAuth, Kubernetes, Quality Assurance.
- **Platforms:** AWS (EC2, S3, Lambda, RDS, Terraform.), Azure, Salesforce, MuleSoft, Postgres, DynamoDB, Clickhouse.
- **Frameworks:** SpringBoot, Flask, React, gRPC, GraphQL, Pandas, Numpy, Scikit-Learn, Streamlit, Express.js.
- **Cloud/DevOps:** AWS (EC2, S3, Lambda, RDS), GCP, Docker, Kubernetes, Terraform, CI/CD, Jenkins, ELK Stack).
- **Data Engineering:** Redis, Postgres, DynamoDB, Clickhouse, Python (Data Pipelines, ML), AWS Data Pipeline.

PROFESSIONAL EXPERIENCE

Research Assistant (AI Innovation lab), University at Buffalo, New York

Feb. 2024 - Present

- Developed LLM to analyze vulnerabilities in enterprise repos, improving detection and remediation accuracy by 30%.
- Enhanced security analysis by integrating **Transformers** into the 'Sven' security tool, boosting **vulnerability assessments** when tested with **prompt engineering**.

Software Developer (Intern), The Integrity Company, California

May. 2024 – Aug. 2024

- Automated **Salesforce CRM** workflows, improving operational efficiency by **70%** and process automation.
- Built full-stack web application with **React** and **Node.js** for a dynamic job portal integrated with a **Mysql database**.

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

Aug. 2020 – Aug. 2023

- Developed **MuleSoft-Datadog** metrics connector, increasing job portal efficiency by **50%** and saving **\$300K** annually.
- Migrated legacy APIs to **microservices** using **SpringBoot**, enhancing **Salesforce** and **AWS integrations**.
- Automated AWS deployments with **Jenkins** and **Kubernetes**, reducing deployment times and manual intervention.
- Optimized **Salesforce-MSSQL** sync with MuleSoft, increasing efficiency by **80%** and saving **\$100K per year**.
- Improved backend **caching** with **Redis**, reducing data **retrieval time** and enhancing performance.
- Designed **RESTful APIs** using **Java**, improving scalability and performance of enterprise apps using **Agile**.

Junior Software Engineer, EPAM Systems

Jan. 2020 – Jun. 2020

- Developed E-commerce with **Java**, **Bigdata** and **.NET**, improving functionality and scalability using **microservices**.

ACADEMIC PROJECTS

AI-Based Fake Image Detection System | React, Flask, PyTorch, AWS

Apr. 2024

- Developed **full-stack** app to detect AI-generated images using **PyTorch**, **APIs** and deployed on **EC2** with **Datadog**.

Fitness Portfolio System | React, Node.js, Docker, Kubernetes, AWS

Mar. 2024

- Created **microservices-based** fitness tracking system with user profiles.
- Deployed with **Docker** and **Kubernetes** on **AWS**, using **VPC** and **load balancing**.

AI-Powered E-Commerce Recommendation System | React, Node.js, Python, TensorFlow, AWS

Aug. 2023

- Built TensorFlow recommendation engine integrated into a **full-stack React-Node.js app**.
- Deployed on **AWS** with **EC2**, **VPC**, and **load balancers**, improving customer retention by **20%**.

Job Board Application | React, Node.js, GraphQL, gRPC, REST, AWS

Jan. 2022

- Built job board app integrating GraphQL, gRPC, and REST APIs on **AWS** using **CI/CD** pipelines and **VPC** for security.

ACHIEVEMENTS AND CERTIFICATIONS

- Earned **3X MuleSoft** certified (**MCIA**, **Developer**, **MCPA**) focused on microservices and **integrations**.
- **Virtusa Hackathon**: Ranked among **top 100** participants in national-level hackathon for developing **Algorithms**.