

Sai Karthik Kosuri

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EDUCATION

Syracuse University - Syracuse, NY
Master of Science in Computer Science
Graduate Teaching Assistant

August 2022 - May 2024
GPA: 3.78/4
August 2022 - December 2023

Vellore Institute of Technology - Vellore, India

Bachelor of Technology, Computer Science ,

Courses: Data Structures & Algorithms, Artificial Intelligence (AI), Computer Networking, Parallel & Distributed Computing

July 2017 - June 2021

GPA: 8.49/10

PROFESSIONAL EXPERIENCE

Data Analyst Intern, Siemens Healthineers – Cary, North Carolina, USA

June 2023 - August 2023

- Devised an efficient data processing system through Power Apps by building advanced search, report automation and streamlined data entry which optimized resource use and budget, saving \$50K annually across operation department
- Successfully managed the transition of data visualization and analytics processes from Power BI to Qlik Sense, ensuring seamless integration and utilization of SaaS-based datasets, enhancing business intelligence capabilities by 30%
- Integrated Python and SQL using Teradata SQL library for advanced data extraction and manipulation from Teradata, leading to a 50% reduction in data processing errors and enhancing data quality

Software Engineer, Broadridge Finance Solutions – Hyderabad, India

July 2021 - July 2022

- Created a website adhering to design principles leveraging TypeScript and Angular for responsive frontend, combined with a Go backend to fetch real-time API data then stored in AWS S3 and employed GitLab for codebase version control
- Optimized application performance by implementing concurrent Go routines for fetching and processing AWS service data streams, reducing retrieval times by 30% and improving responsiveness
- Designed automation linking GitLab webhooks to Jira via AWS Lambda and API Gateway, enhancing issue tracking and logging with CloudWatch, reducing issue resolution times by 40%
- Automated AWS infrastructure deployment via Jenkins CI/CD pipelines with Groovy scripts and terraform repositories for IaC (Infrastructure as Code) reducing infrastructure provisioning time by 70%
- Developed robust APIs for the company website using Node.js, harnessing object-oriented programming principles and strategic code optimization resulting in a 30% increase in user engagement
- Led a cross-functional team to revamp Terraform (Iaas) scripts, boosting infrastructure agility by 30%. Achieved seamless state file management via S3 and security with DynamoDB state locking, resulting in a 25% faster deployment cycle

Software Engineer Intern, Broadridge Finance Solutions – Hyderabad, India

April 2021 - July 2021

- Collaborated with DevOps team to introduce Splunk dashboard to generate valuable log statements bringing down root cause analysis time for a bug by 80%
- Tested code against test suites using test pyramid concepts to write integration, end to end and unit test cases to get a code coverage of at least 95% and facilitate effective technical documentation for reviews in Confluence
- Applied Agile software development methodologies to rapidly prototype and deploy AWS cloud services solutions, including EC2 and Lambda, ensuring iterative improvements and stakeholder feedback integration

PROJECT

Deployment of Real-Time Voting Application on AWS

January 2023 - March 2023

- Utilized AWS EKS for backend orchestration and EC2 for React frontend hosting, ensuring enhanced performance, security & user experience with effective access policies and ALBs. Established MongoDB stateful set on EKS for data management

Covi source: Hospital Finder & Booking App <https://covisource-vn.netlify.app/>

January 2022 - April 2022

- Designed and developed a Covi source (responsive desktop application for Tab and Mobile): encompassing full-stack design that enabled users to locate hospitals based on specific search criteria and make online reservations during the pandemic
- Tech Stack: ReactJS, HTML, CSS, JavaScript, Redux, Bootstrap, Firebase, Express, Node, MongoDB

SKILLS

- Programming Languages: Go, Python, C, Java, HTML, CSS, TypeScript, JavaScript, Bash , Groovy
- Frameworks and Libraries: Terraform, Angular, Scikit learn, Pandas, OpenCV, CV2, NLTK, TensorFlow, Matplotlib, Apache Kafka, MapReduce, Hadoop ,Ansible
- Data Processing & Analytics: Databricks, Unity Catalog, Snowflake
- Tools and Technologies: Amazon Web Services, Azure, Redux, Bootstrap, Kubernetes, Docker, GIT, Express, JIRA, Node JS, Restful APIs, IDEA, Eclipse, MySQL, MongoDB, Redis Cache, Oracle, Webpack, Power Apps, Power BI & Qlik Sense

CERTIFICATIONS

- [AWS Certified Solutions Architect Associate](#) Issued by Amazon Web Services Training and Certification