

Durga Kondaveeti

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PROFESSIONAL EXPERIENCE

Graduate Teaching Asst. - Cloud & AI Infra IT 442

Jan 2025 – Present

George Mason University (AWS, Node.js, Python, Typescript CDK)

Fairfax, VA

- Mentored **200+** students on **20+** AWS and Azure services (EC2, S3, Lambda, SageMaker, Bedrock), Docker, and Terraform, delivering hands-on labs that earned a **100% satisfaction** rating.
- Published **30+** technical resources for system design, distributed system patterns, and Kubernetes orchestration tutorials with regular office hours, increasing student engagement.

Software Development Engineer

Aug 2023 – Aug 2024

Paytm contract (Tech Stack: Python, React, Django, Docker)

Noida, India

- Optimized React web application performance via code splitting, lazy loading, and Redis caching, reducing page load time from **2.9s to 1.6s** and boosting user engagement by **28%**.
- Architected reusable component libraries and established Jest testing protocols for **35+** core modules, improving code coverage and reducing regression bugs by **25%**.
- Designed CI/CD pipelines using Jenkins and GitHub Actions for **100+** microservices, integrating SonarQube for static analysis, which reduced release cycle time by **33%**.
- Contributed to the migration of **25+** services to AWS, utilizing Docker and Terraform for infrastructure-as-code, resulting in a **19%** reduction in operational costs.

Software Engineering Intern

Jan 2023 – June 2023

AICTE - Jio

Mumbai, India

- Built an automated support ticket classification model using Scikit-learn, achieving **95% accuracy** on 100K+ records and saving the operations team **30+ hours/week**.
- Developed a backend forecasting service using Node.js and SARIMA models, optimizing XML parsing logic to O(n) to achieve **65% faster response times**.

PROJECTS

Regex Backtracking Visualizer | React, TypeScript, AST Parsing [Demo]

- Built a custom Regex engine to visualize **recursive backtracking** and greedy matching steps in real-time, helping developers debug complex patterns.

NLU Code Explainer LLM | Python, Llama 2, QLoRA, PEFT [GitHub]

- Fine-tuned **Llama 2** using QLoRA and AST-based feature extraction to generate human-readable code explanations, improving semantic accuracy by **20%** over base benchmarks.

CLIP-based Image Understanding | PyTorch, ViT-B/32, Mask R-CNN [GitHub]

- Implemented text-to-image retrieval and zero-shot classification; achieved **Recall@1=0.91** on CIFAR-10 by utilizing cosine ranking and OOD (Out-of-Distribution) abstention mechanisms.

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, TypeScript, SQL

Frameworks: React, React Native, Node.js, Django, Spring Boot, GraphQL

Cloud & DevOps: AWS (Lambda, DynamoDB, EC2), Docker, Kubernetes, Terraform, Jenkins, CI/CD

Certifications: AWS Developer Associate, Oracle Cloud Infrastructure, Red Hat Enterprise Developer

EDUCATION

George Mason University

Fairfax, VA

Master of Science in Computer Engineering

Aug 2024 – May 2026

Koneru Lakshmaiah University

Vijayawada, India

Bachelor of Science in Computer Science

Jul 2020 – Apr 2024