

# Umesh Teja Nareddy

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## PROFESSIONAL SUMMARY

Software Engineer with 5+ years of experience in the design, development, operation, and maintenance of computer systems and software applications within the Information Technology sector. Proficient in SDLC methodologies, technical design specifications, testing, and certification processes to drive effective software development. Skilled in delivering scalable, secure, and reliable IT solutions while supporting production environments. Strong in collaboration, driving results, problem-solving, and applying technical knowledge and industry best practices to meet business needs.

## TECHNICAL SKILLS

<b>Programming &amp; Scripting:</b>	Python, Java, SQL, PowerShell, Shell, Bash
<b>Application &amp; System Design:</b>	Object-Oriented Programming (OOP), Microservices, API Development, Middleware (IIS/.NET, Linux)
<b>Software Lifecycle &amp; Testing:</b>	SDLC, Agile, Unit Testing, Integration Testing, CI/CD (Jenkins, GitHub Actions, ArgoCD)
<b>Databases:</b>	MySQL, Oracle, SQL Server, AWS RDS, Redis
<b>Cloud Platforms:</b>	AWS (EKS, EC2, RDS, IAM, Lambda, S3, Redis, ECS, CloudWatch), Azure (VMs, Storage, Network)
<b>Automation &amp; IaC:</b>	Terraform, Ansible, CloudFormation, Bicep, ARM
<b>Monitoring &amp; Observability:</b>	Prometheus, Grafana, Splunk, ELK, SLO/SLI frameworks, PagerDuty, CloudWatch
<b>Containerization &amp; Orchestration:</b>	Docker, Kubernetes(K8s), Helm, Istio, OpenShift
<b>OS &amp; Other Tools:</b>	Linux, Windows, ServiceNow, Incident/Change Management, Akamai, ChatGPT, Copilot
<b>Certifications:</b>	<a href="#">Amazon Web Services Solutions Architect</a> , <a href="#">Amazon Web Services DevOps Engineer</a>

## PROFESSIONAL EXPERIENCE

### Princess Cruises – Contract/Remote

July 2021 – Current

#### Role – Software Engineer (Cloud & Application Systems)

- Designed and developed enterprise application platforms supporting 30+ critical business systems, reducing operational costs by 25% through efficient design and automation while keeping a close eye on industry trends in the technology industry.
- Created technical design specifications and implemented containerized applications with Kubernetes and Istio, ensuring 99.9% uptime and enabling zero-downtime upgrades while demonstrating sound judgment in technical solutions and architecture decisions.
- Developed and maintained a flight booking web application consuming Sabre SOAP Web Services, implementing REST/SOAP APIs and XML-to-Java bindings with Jibx/JAXB.
- Developed and maintained CI/CD pipelines (Jenkins, GitHub Actions, ArgoCD), cutting release cycles by 35% and reducing deployment errors by 40%, showcasing an innovative method for efficient planning and assisting in team dynamics with a disciplined approach.
- Participated in testing and certification by automating validation, rollback, and failover processes, ensuring safe and reliable software deployments and reflecting a strong responsibility toward quality assurance.
- Supported and maintained applications by integrating observability frameworks (Splunk, CloudWatch, PagerDuty), reducing mean time to recovery (MTTR) by 40%, embodying a proactive approach to monitoring and hardware efficiency.
- Interpreted and applied SDLC best practices, documenting workflows and aligning with ITSM standards for incident, change, and problem management, ensuring that processes are well-communicated across teams and fostering an employee empowerment culture.
- Explored emerging technologies, piloting Azure OpenAI integrations into enterprise pipelines to drive innovation and support digital transformation, demonstrating a commitment to advancing the technology industry and creating prototypes.
- Collaborated with technical peers and mentored junior staff, fostering knowledge sharing and results-driven teamwork that emphasizes mutual assistance and collective goal achievement.

### NJR Infotech Pvt Ltd.– Contract/Hyderabad, India

June 2017 - December 2018

#### Role – Software Engineer (Build and Release Engineer)

- Engineered automated build and release pipelines with Jenkins, Maven, and Terraform, reducing release cycle time by 25% while ensuring software integrity through diligent attention to detail and procedures, embodying discipline.
- Designed and deployed CI/CD workflows that reduced manual errors by 30% and improved developer productivity by 35%, leveraging analytical skills for improved goal achievement and exemplifying adaptability in a fast-paced environment.
- Created rollback and failover automation for critical applications, ensuring high availability during production releases and demonstrating a commitment to reliable software operations.
- Orchestrated Kubernetes and OpenShift clusters with service mesh (Istio), boosting application scalability and availability by 35% through effective resource management.
- Documented technical processes and guided cross-team collaboration, aligning releases with SDLC and ITSM best practices, thus ensuring everyone remains informed of developments.
- Supported security audits and compliance checks by maintaining version-controlled infrastructure and adhering to ITIL best practices.

## EDUCATION

### Campbellsville University, KY (Online)

Expected Dec 2025

Master of Science in Computer Science

**Coursework:** Artificial Intelligence, Machine Learning, Cyber Security, Cloud Computing, Computer Networking, Databases

### Lawrence Technological University, Southfield, MI

Jan 2019 – May 2021

Master of Science in Construction Engineering Management

### SRM University, Chennai, India

June 2013 – May 2017

Bachelor of Science in Civil Engineering