

# Hemanth Raju Koneti

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## Summary

Experienced in Python, Java, JavaScript, SQL, React, and AWS, with expertise in software development, distributed systems, database design, and full-stack application architecture. Well-versed in AI/ML workflows, LLMs, and cloud-native solutions, with professional experience optimizing enterprise applications at Oracle and Technocolabs, and building generative AI and scalable cloud solutions at ASU AI Cloud Innovation Center. Strong problem-solving skills with a focus on delivering high-performance, impactful software systems.

## EDUCATION

<b>Arizona State University, Tempe</b> <i>Masters, Computer Science</i> • <b>GPA:</b> 4.11/4.00	<b>Aug 2024 - May 2026</b>
<b>Visvesvaraya Technological University, India</b> <i>Bachelor of Engineering, Information Science Engineering</i> • <b>GPA:</b> 9.07/10.0	<b>Aug 2017 - May 2021</b>

## SKILLS

- **Languages:** Python, JavaScript (ES6+), TypeScript, Java, SQL, HTML/CSS
- **AI/ML:** LLM models, NLP, AWS Bedrock, Amazon Q Business
- **Frameworks & Databases:** React, Node.js, Spring Boot, MongoDB, DynamoDB, MySQL, Postgresql
- **Cloud/Tools & others:** AWS (EC2, S3, Lambda), Docker, Kubernetes, Git, Jenkins, Kafka, Terraform (IaC)

## WORK EXPERIENCE

<b>ASU Cloud Innovation Center</b> <i>AWS Cloud Developer</i>	<b>Apr 2025 - Present</b> <i>Scottsdale, Arizona</i>
• Led end-to-end delivery of AI/ML and cloud projects, researching and selecting optimal AWS services (e.g., Bedrock, SageMaker, Lambda, DynamoDB) tailored to diverse enterprise client needs.	
• Built full-stack cloud solutions using Infrastructure as Code (CloudFormation/Terraform), API-driven backends, and responsive frontends with React and Streamlit, which improved system reliability and user engagement	
• Designed and deployed scalable, cost-effective AWS architectures, ensuring fast integration into client environments and earning direct client commendations.	
• Reduced release cycles from 7 days to 24 hours by automating CI/CD pipelines with CodeCommit, CodeBuild, and CodeDeploy, increasing deployment velocity 6x.	
<b>Oracle Cerner</b> <i>Software Engineer</i>	<b>May 2021 - Jul 2024</b> <i>Bangalore, India</i>
• Delivered code for healthcare applications, maintaining a 100% compliance rate with safety and regulatory standards	
• Developed and maintained Java-based microservices using Spring Boot, powering backend systems for critical radiology workflows in enterprise healthcare applications.	
• Collaborated with cross-functional teams of engineers, clinicians, and product managers to support operations logistics and deliver project updates, ensuring alignment with healthcare standards.	
• Streamlined reporting processes by generating automated status reports using Python, Java, and Excel, improving stakeholder communication efficiency by 25%.	
• Played a key role in backend modernization efforts, contributing to a faster, more reliable radiology system used by thousands of practitioners daily.	

## PROJECTS

<b>Knowledge Bot - Disability Rights Texas</b>   <a href="https://github.com/ASUCICREPO/Disability-Rights-Texas">https://github.com/ASUCICREPO/Disability-Rights-Texas</a>	<b>May 2025</b>
<i>Disability Rights Texas</i>	<i>ASU Cloud Innovation Center</i>
• Built AI chatbot with Amazon Q Business, reducing legal inquiry load by 40%+.	
• Enabled 24/7 access to legal rights info for 10K+ users in English and Spanish.	
• Improved clarity with citations and simplification, boosting engagement by 60%.	
• Engineered a secure, scalable AWS solution (S3, Lambda, API Gateway) enabling 24/7 access to critical legal resources.	

<b>Facial Authentication for Credit Cards</b>	<b>Aug 2021</b>
• <a href="https://github.com/KHemanthRaju/Credit-Card-Reader-Using-Facial-Recognition">https://github.com/KHemanthRaju/Credit-Card-Reader-Using-Facial-Recognition</a>	

- Created face recognition service with 99.8% LFW accuracy using DeepFace library, deployed on EC2 with auto-scaling.
- Reduced spoofing attacks by 70% through liveness detection with temporal CNN.

## CERTIFICATIONS

- **AWS Solution Architect Certification:** 2025
- **AWS Cloud Practitioner Certification:** 2025
- **Data Analytics Consulting Virtual Internship - KPMG:** 2024