

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

Arizona State University, Tempe

Aug 2024 - May 2026

Masters, Computer Science

- GPA: 4.11/4.00

Visvesvaraya Technological University, India

Aug 2017 - May 2021

Bachelor of Engineering, Information Science Engineering

- GPA: 9.07/10.0

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

WORK EXPERIENCE

ASU Cloud Innovation Center

Apr 2025 - Present

AWS Cloud Developer

Scottsdale, Arizona

- 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.

Oracle Cerner

May 2021 - Jul 2024

Software Engineer

Bangalore, India

- 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

Knowledge Bot - Disability Rights Texas | <https://github.com/ASUCICREPO/Disability-Rights-Texas>

May 2025

Disability Rights Texas

ASU Cloud Innovation Center

- 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.

Facial Authentication for Credit Cards

Aug 2021

<https://github.com/KHemanthRaju/Credit-Card-Reader-Using-Facial-Recognition>

- 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