

SANDEEP VENKATA PUNUGU

Solution Architect

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📍 ALDIE, VA

SUMMARY

As a seasoned Solution Architect with a strong background in designing and implementing complex systems, I am excited to transition into the field of Machine Learning. My extensive experience in architecting solutions for a wide range of industries, combined with a deep understanding of cloud computing and data engineering, positions me as a valuable candidate for this role.

PROFESSIONAL EXPERIENCE

Solution Architect/Pega Lead System Architect	📅 2023 - Present	📍 Virginia
R2Tech LLC		
Solution Architect/Pega Lead System Architect	📅 2016 - 2022	📍 Virginia
iTech US Inc		
Sr Software Engineer/Pega Systems Architect	📅 2009 - 2016	📍 Virginia
iTech US Inc		
Software Engineer/Pega Systems Architect	📅 2006 - 2009	📍 Multiple
Cognizant Technology Solutions		

STRENGTHS

💎	Architectural Expertise With a proven track record in designing scalable and resilient systems, I bring a wealth of knowledge in building infrastructure that can support the demands of machine learning workloads. This includes optimizing cloud-based architectures and implementing DevOps practices for ML deployment.
💎	Strong Communication Effective communication is essential in ensuring alignment between technical teams and business stakeholders. My experience in delivering clear, concise explanations of technical concepts and decisions is an asset in this regard.
💎	Cross-functional Collaboration Throughout my career, I have worked closely with engineers, and business stakeholders to bridge the gap between business requirements and technical solutions.
💎	Problem-solving and Adaptability My ability to solve complex technical challenges and adapt to rapidly evolving technology trends allows me to navigate the ever-changing landscape of machine learning effectively.
💎	Lifelong Learning I am deeply committed to continuous learning and staying current with the latest developments in machine learning, including advancements in models, tools, and best practices.

MACHINE LEARNING EXPERTISE

💎	AWS Data Exploration/Analysis, preprocessing using AWS Kinesis, Glue, and other services. Build and deploy ML models using AWS Sagemaker, tuning hyperparameters using Sagemaker services.
💎	GCP Exploratory analysis using BigQuery, Vertex AI. Build and deploy models using BigQuery ML, and Vertex AI. Build data pipelines using Apache Beam/Dataflow.
💎	Kaggle Competitions Participated in multiple competitions in NLP, deep learning, classification, and regression using TensorFlow, keras, scikit-learn, and other tools

EDUCATION

Masters in Computer Engineering
Wright State University
📅 2003 - 2005

SKILLS

Machine Learning			
Regression	Classification	NLP	
Computer Vision		Data Analysis	
Data Visualization		Model Development	
Data Preprocessing		Statistical Analysis	
Deep Learning	ML Ops	Big Data	
Programming Languages/Packages			
Python	Pandas	NumPy	Tensorflow
pySpark	pyTorch	Scikit-Learn	
Matplotlib	Seaborn		
Tools			
AWS	GCP	Github	Jupyter Notebook
Docker	Kubernetes	Spark	Linux
Other Technologies			
Pega PRPC	Java	Javascript	

CERTIFICATIONS

💎	AWS Solutions Architect -Associate
💎	AWS Machine Learning Professional
💎	Pega PRPC Senior Systems Architect 8.x
💎	Pega PRPC Systems Architect

TRAINING / COURSES

Machine Learning Specialization - Coursera
Generative AI with Large Language Models - Coursera

PROJECTS

AEOB VTC

📅 2022 - Present 📍 Location

Architected the application in Pega which determines the validity, compatibility edits for Medical Claims via a REST service

CCAE(Pharmacy VTC)

📅 2021 - 2022 📍 VA

Architected the application in Pega which determines validity, compatibility edits for Pharmacy Claims via a REST service

Workflow Management

📅 2016 - 2021 📍 VA

Architected a workflow solution using Pega PRPC which helps Plans(Healthcare companies) manage, allocate work to its processors, and also automate claims processing

Medicare Audit Remediation - Edits

📅 2015 - 2015 📍 VA

Designed and developed the SOAP service using Pega PRPC to process Medicare OPR edits as part of the claims adjudication system

ICD 10 Compliance Implementation and BP Failsafe Removal

📅 2010 - 2015 📍 VA

Developed the SOAP service in Pega PRPC to replace legacy module in Mainframe which determines benefit service for claims

Benefits Administration

📅 2009 - 2010 📍 VA

Designed and developed a GUI application in Pega PRPC to replace the legacy java application which is used to CRUD codes, code groups, services, products

eWatson SPA

📅 2007 - 2009 📍 WA

Short summary of your work