Contact

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Top Skills

Systems Design
Program Management
Solution Architecture

Certifications

Machine learning

Oracle sql

Artificial Neural Networks (ANN) with
Keras in Python and R

Professional Scrum Master™ I (PSM
I)

AWS Certified Solutions Architect

Dhanushree Neelapu

TPM | Agents | AI | AWS Certified Solutions Architect | PSM | MIS @
UMD
Washington DC-Baltimore Area

Summary

Keep it simple – that's my motto.
I'm a Software Engineer turned Technical Program Manager with
4+ years of experience transforming complex problems into simple,
data-driven solutions that deliver real impact.

What I do:
I help businesses make better decisions through clear requirements,
insightful data analysis, and scalable systems. I specialize in aligning
technical execution with business strategy—whether it's cloud
migration, dashboarding, or deploying GenAI solutions.

Where I thrive:
At the intersection of business, data, and tech. I bring structure to
chaos and clarity to ambiguity. My toolkit includes Jira, Power BI,
Tableau, SQL, Python, and AWS—and I'm fluent in Agile.

Recent wins:

Designed a GenAI-powered HR chatbot with Snowflake & Gemini
LLM

Built Power BI dashboards that cut reporting time by 40%

Integrated IAM security in AWS data migration projects

What sets me apart:
Strong communicator. Strategic thinker. Builder of bridges between
business and engineering. My style is collaborative, solutions-
focused, and always grounded in simplicity.

Let's connect if you're solving tough problems with data, tech, or AI
—and need someone to turn vision into execution.

Experience

NSP Systems, Inc
Technical Program Manager
January 2025 - Present (9 months)

• Led discovery & assessment of existing reporting workflows across Finance, Ops, and Marketing, delivering a strategic roadmap that consolidated 6+ fragmented tools into a unified AWS data platform
• Directed discovery workshops with business stakeholders and architects to assess data ingestion, transformation, and governance gaps, feeding into the architecture blueprint and phased roadmap
• Coordinated an 18-week phased roadmap covering ingestion, transformation, security, and visualization milestones with 95% adherence.
• Built an AI-driven automation pipeline for a major retail brand's social media using n8n, OpenAI, Airtable, and Blotato, cutting content production time from 1 week to 45 minutes with a 97% automation success rate.
• Enabled scalable publishing to Instagram Reels, TikTok, and YouTube Shorts, doubling posting frequency and boosting Instagram engagement by 22%.

Human Rights Research Center (HRRC)
Research Assistant
February 2025 - August 2025 (7 months)

University of Maryland
Graduate Assistant - Accessibility & Disability Service
August 2024 - December 2024 (5 months)
College Park, Maryland, United States

Fresenius Medical Care
1 year

Project Manager- UMD Project Capstone
January 2024 - December 2024 (1 year)
College Park, Maryland, United States

• Implemented a multimodal RAG solution using LangChain, Gemini LLM, and Generative AI to build an HR policy chatbot MVP, reducing employee query response time by 30%.
• Applied Agile methodologies to collaborate with product and technical teams, ensuring 95% on-time delivery of requirements and project milestones.

Global Data Analytics Intern

June 2024 - August 2024 (3 months)
College Park, Maryland, United States

• Developed Patient Training Solutions, utilizing GenAI and AWS to improve training outcomes, achieving a 35% increase in training effectiveness and stakeholder satisfaction.
• Improved data management by 20% through technology integration with the Data and Analytics team, using storytelling to convey AWS solution architecture and project value to non-technical stakeholders.
• Co-ordinated in designing AI-powered solutions for predictive healthcare analytics, improving patient training outcomes by 30%.
• Leveraged Power BI and Excel to analyze over 50,000 rows of operational data, providing actionable insights that contributed to a 15% reduction in costs during a $2M system migration project.

University of Maryland - Robert H. Smith School of Business
Graduate Research Assistant
January 2024 - May 2024 (5 months)

• Developed SDFN framework with JDBD, Power BI, and Visio for enhanced data visualization and KPI tracking.
• Led A/B testing and causal analysis with Difference-in-Differences model, improving ad spend efficiency by 20%.
• Conducted detailed data requests with stakeholders, independently researching records to support project intake and financial reporting.

NTT DATA
SDE
August 2021 - July 2023 (2 years)
Hyderabad, Telangana, India

Function and Domain knowledge in Banking and Insurance domain.
• Conducted detailed root cause analysis to troubleshoot recurring data issues, ensuring a 20% data quality and integrity improvement.
• Automated smoke test scripts for client applications (LTCG and Illumifin), increasing test coverage by 30% and reducing manual testing by 25% while providing metrics to monitor script performance and accuracy over time.

Techecy
Business Analyst
April 2020 - July 2021 (1 year 4 months)
India

• Collaborated with cross-functional teams to implement cloud-based data solutions, reducing operational costs by 10%.
• Supported the development of custom reports and dashboards in Tableau and Power BI, increasing data access efficiency and reducing reporting time by 20%.
• Conducted business process improvement (BPI) initiatives, resulting in a 15% improvement in team productivity.
• Utilized Lucidchart to create process maps and system diagrams, ensuring clear communication and reducing misunderstandings in technical projects by 30%.
• Helped integrate and automate data flows, improving system efficiency and cutting manual effort by 25%.

zebo.ai: AI Based Dermatology Platform
Data Science Intern
June 2020 - August 2020 (3 months)
Hyderabad, Telangana, India

• Assisted in collecting and preprocessing dermatological datasets, performing extensive data cleaning and validation to prepare for analysis and modeling.
• Conducted exploratory data analysis (EDA) and visualization using Python libraries like Pandas, Matplotlib, and Seaborn, uncovering patterns and trends relevant to skin condition diagnostics.
• Collaborated closely with senior data scientists to apply machine learning techniques, such as classification and segmentation models, aimed at improving diagnostic accuracy and treatment recommendations for dermatological conditions.
• Contributed to developing AI-driven tools designed to automate image analysis tasks, enhancing early detection capabilities for skin conditions, under professional mentorship.

Software Engineering Research Center, IIIT Hyderabad
Student Intern
June 2020 - July 2020 (2 months)
Hyderabad, Telangana, India

Sonata Software
Student Intern
June 2019 - August 2019 (3 months)
Hyderabad, Telangana, India

• Assisted with daily operational tasks including debugging, code reviews, and deployment processes, ensuring smooth team workflows.
• Conducted research on software solutions, best practices, and emerging technologies to support informed decision-making and improve product quality.
• Actively participated in agile team meetings, supported comprehensive documentation efforts, and contributed to project reporting, gaining practical skills in the software development lifecycle and project management.

Education

University of Maryland - Robert H. Smith School of Business
Master's degree, Information Systems Management · (August 2023 - December 2024)

JNTUH College of Engineering Hyderabad
Bachelor of Technology - BTech, Information Technology · (2017 - 2021)