AMITH TALLANKI

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Technical Skills

Machine Learning: Scikit-Learn, PyCaret, Pandas, Pytorch, Data Preprocessing, Model Evaluation
Application Eng: Java, Python, C#, Javascript, HTML/CSS, GraphQL, Spring, React, Redis, Kafka
Cloud Infrastructure : AWS: EC2, S3, Lambda — Azure : Service Bus, Azure App Service, Azure Functions
DevOps: Docker, Kubernetes, Azure DevOps, Git Pipelines, Git

Experience

Microsoft   Jan 2022 – Jan 2025

Software Development Engineer 2 | C#, .NET, Azure, React, CI/CD, Kubernetes, Docker

- Scaled high-volume messaging architecture by leading an Azure Service Bus upgrade, implementing a round-robin strategy that tripled system capacity and reducing message latency by 40%, ensuring seamless, cost-effective scalability.
- Pioneered Azure Arc Autonomous (Project Winfield), enabling fully disconnected cloud infrastructures on-premises, expanding Azure's reach into edge computing and hybrid cloud environments.
- Mentored and onboarded 5 junior engineers, developing tailored training programs that accelerated their cloud engineering proficiency, reducing ramp-up time by 50% and boosting team productivity.
- Optimized CI/CD pipelines, integrating advanced DevOps strategies that cut project delivery timelines by 25% and improved code quality by 35%, streamlining deployments across teams.
- Enhanced cloud security measures by deploying Azure Front Door, Security Center, and Key Vault, reducing potential security incidents by 50% through automated threat detection and access management.

Juniper Networks   Nov 2019 – Jan 2022

Software Development Engineer 2 | Java, React, Springboot, Python, Numpy, Apache Spark

- Designed a machine learning-driven log analysis system, leveraging Random Forest and Apache Spark for automated error classification, reduced debugging time by 90% and delivering insights to 10,000+ developers worldwide.
- Developed scalable, high-performance backend and frontend microservices using Spring Boot and Netflix OSS, improving system reliability and accelerating feature rollout across distributed teams.
- Developed reusable React components to enhance developer accessibility and streamline workflows within Juniper's internal Pre-Commit job submission tool.
- Led the development of REST APIs, enabling faster integration and improving developer productivity through modular, well-documented endpoints.

Manhattan Associates   July 2016 – Nov 2019

Software Engineer | Java, Angular, Microservices, Redis, Kafka

- Designed the system architecture for reporting solutions using Jaspersoft Reports for enterprise clients like Michael Kors and Under Armor.
- Developed a microservices-based reporting architecture, reducing implementation time for new reports by 50%, improving client responsiveness.
- Led client communication to gather requirements and design solutions tailored to business needs, ensuring alignment with user expectations.

Education

Georgia Institute of Technology   2023 - 2025

Masters in Computer Science

Dayananda Sagar College Of Engineering   2012 - 2016

Bachelors in Computer Science

Projects

A/B Testing Framework | *Python, Scikit-Learn, Flask, React*

- Built a full-stack A/B testing framework with a dynamic dashboard that enabled product teams to design, implement, and analyze experiments; integrated statistical methods (t-tests, chi-square) and automated result analysis to deliver actionable insights for data-driven decision-making.

Urban Bike Infrastructure Prediction | *Python, Scikit-Learn, PyCaret, Pandas, Folium*

- Developed a machine learning pipeline to predict Atlanta bike ride demand using NYC CitiBike and U.S. Census data, applying neural networks, linear regression, and boosted random forest models; designed and visualized demographic and bike ride heatmaps with Folium and Bootstrap for infrastructure planning.

Evaluating the Robustness of LLMs via Backdoors | *Python, PyTorch, Transformers, Llama Index*

- Investigated adversarial vulnerabilities in LLMs by injecting and detecting backdoor attacks and implemented fine-tuning and prompt engineering techniques to evaluate malicious perturbations in LLM outputs.