

**Saran P Kumar**  
**New Jersey**  
**IT Engineer**

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## **Professional Summary**

Microsoft Certified Azure Cloud Engineer and AI Engineer with 7+ years of experience in cloud infrastructure, backend development, and intelligent automation. Proven expertise in deploying and managing Azure Virtual Machines, building scalable microservices, and integrating Generative AI using with Python, JSON into enterprise workflows. Architected Agentic AI chatbot solutions for Microsoft Outlook, Microsoft SharePoint Drive, Microsoft Teams, leveraging LangChain, RAG, and GPT models.

## **Technical Skills:**

<b>Domain</b>	<b>Tools &amp; Technologies</b>
<b>Cloud &amp; Infrastructure</b>	Azure VMs, Azure AD, RBAC, Azure Monitor, Azure Data Lake, AWS, S3.
<b>DevOps &amp; MLOps</b>	Docker, Kubernetes, Jenkins, CI/CD Pipelines
<b>Backend Development</b>	Java, Spring Boot, REST APIs, Microservices
<b>Generative AI &amp; LLMs</b>	LangChain, RAG, Hugging Face, OpenAI API, Google Studio API, Vector Databases N8N Platform App
<b>AI &amp; Data Science</b>	Azure Cognitive Services, Deep Learning, Time-Series Modeling
<b>Data Engineering</b>	Python Pandas, TensorFlow, PyTorch, Databricks, Kafka, SQL, MySQL, PostgreSQL
<b>Visualization &amp; BI</b>	Power BI, Tableau

## Professional Experience

### AdvantaSure, VA

Remote, USA

May- 2023 – Present

#### AI Cloud Engineer :

- Provisioned and managed Azure VMs across departments via Azure Active Directory, optimizing performance, and availability for client environments.
- Automated deployments using ARM templates and Terraform, configured NSGs, VNets, and storage for secure scalability.
- Implemented RBAC, MFA, and Conditional Access via Azure AD, and monitored systems using Azure Monitor, Log Analytics, and custom dashboards.
- Designed cloud architectures with CI/CD pipelines, ensured governance and cost control across Azure/AWS, and maintained sync jobs and VM services like Harvester and Coddler.
- Developed **Generative AI applications** using **LangChain**, **OpenAI API**, **RAG**, and **Vector Databases** for intelligent document summarization and conversational agents
- Built and exposed **AI-powered API endpoints** to deliver insights, summaries, and sentiment analysis to frontend dashboards
- Designed and implemented **machine learning models** using **TensorFlow**, **PyTorch**, and **Scikit-learn** for classification, regression, and clustering tasks
- Performed **data preprocessing**, cleaning, and feature engineering using **Pandas**, **NumPy**, and Scikit-learn to prepare datasets for modeling
- Scheduled and monitored **hourly data synchronization jobs** using **Azure Automation**, **cron triggers**, and Python scripts to ensure real-time consistency across distributed systems
- Created robust Python scripts for **log parsing**, **system health checks**, and **automated data workflows**
- Built **ETL pipelines** and real-time data ingestion systems using **Apache Kafka**, **Databricks**, and **SQL**

- Integrated AI models into production environments using **Docker**, **Kubernetes**, and **CI/CD pipelines** with Jenkins
- Implemented **alerting and logging mechanisms** using **Azure Log Analytics** for proactive system monitoring and diagnostics
- Collaborated with cross-functional teams including backend, cloud, and data science to embed AI capabilities into enterprise applications
- Created interactive **dashboards and visualizations** using **Power BI** and **Tableau** to communicate model insights and system metrics
- Ensured data governance, model versioning, and reproducibility across AI workflows in cloud-native environments

## **HMS Corp**

Remote, USA

Feb 2019– April - 2023

### **IT Engineer:**

- Provisioned and managed **Azure Virtual Machines (VMs)** across departments and client environments, ensuring optimal sizing and high availability
- Automated VM deployment using **ARM templates** and **Terraform**, streamlining infrastructure setup
- Configured **NSGs**, **virtual networks**, and **storage accounts** for secure and scalable operations
- Assigned remote user access via **Azure AD**, implementing **RBAC** policies
- Integrated **MFA** and Conditional Access policies to enhance remote security
- Monitored VM health and performance using **Azure Monitor**, **Log Analytics**, and **Application Insights**
- Set up **custom alerts and dashboards** to track system metrics across environments
- Performed **patch management** and OS updates using **Azure Update Management**
- Conducted **cost optimization** using **Azure Advisor** and **Cost Management tools**

- Designed **scalable cloud architectures** and automated deployments via **CI/CD pipelines**
- Assigned **department-specific applications and roles** across distributed Azure environments
- Ensured **cloud governance**, scalability, and cost control across **Azure and AWS**
- Managed **Harvester and Coddler services** on client VMs for operational continuity
- Implemented **alerting and logging mechanisms** using **Azure Log Analytics**
- Developed hourly data synchronization jobs using Python and Azure automation
- Architected an **Agentic AI chatbot** integrated with Microsoft Teams for auto-email communication and data retrieval from SharePoint and OneDrive
- Leveraged **LangChain, RAG, GPT**, and **Vector Databases** for dynamic response generation
- Designed user-centric web applications using **HTML5, CSS3, JavaScript, React.js, Angular.js**
- Implemented responsive UI/UX components and dynamic routing with Angular Router and JWT interceptors
- Integrated RESTful APIs with Angular promises for asynchronous communication
- Used **JAXB** and XML for data binding and transformation in Java-based applications
- Developed scalable **RESTful APIs and microservices** using **Java 1.8, Spring Boot, Spring MVC**, and **Hibernate ORM**
- Applied J2EE design patterns: **DAO, Service Locator, Session Facade, Singleton, Business Delegate**
- Implemented service layers with **Spring IoC**, annotations, and AOP for exception handling
- Used **Apache Camel** for protocol-based integration with HTTP, JMS
- Built messaging systems using **JMS**, including listeners for asynchronous processing
- Automated CI/CD pipelines using **Jenkins, Maven**, and **Git**
- Deployed applications on **AWS EC2, Elastic Beanstalk**, and **Tomcat**

- Managed environments on **Ubuntu Linux** instances in AWS
- Used **JIRA** for Agile tracking and **JUnit/Protractor** for test-driven development
- Designed relational schemas and wrote complex **SQL queries, stored procedures, and views** in **Oracle** and **MySQL**
- Mapped Java objects to relational models using **Hibernate, HQL**, and dynamic JSON schemas
- Integrated multiple data sources for unified views in migration projects

## **Education**

### **Master of Science in Information Technology**

WIGU, United States – Year 2018

Core Subject: Cloud Computing, AI & Machine Learning, DevOps Automation

### **Bachelor of Science,**

India. Year = 2009

## **Certifications**

- Microsoft Certified: Azure Administrator Associate (AZ-104)
- Microsoft Certified: Azure AI Engineer Associate (AI-102)
- Oracle AI Foundation Certified
- Java Developer Certification
- Master in Python
- **Oracle Java badge 2019**