RAKESH SURAMPALLI

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PROFESSIONAL SUMMARY

Highly accomplished Data-driven Software Engineer and Product Developer with 8+ years of experience building intelligent, full-stack solutions across healthcare, finance, and IoT. Proficient in Python, Django, React, and expert in cloud-native ML deployment on Azure and GCP. Adept at translating business goals into scalable data systems, predictive models, and user-centric applications that enhance decision-making and product value.

TECHNICAL SKILLS

- **Languages:** Python, R, SQL, Flask, Bash, Django,Hadoop, PySpark, Embedded C.
- **Databases:** MySQL, PostgreSQL, MongoDB, S3, Aurora, DynamoDB, Azure SQL Database.
- **Cloud & DevOps:** AWS, Azure, GCP, Docker, Git, REST APIs, GitHub Actions CI/CD.
- **Visualization:** Power BI, Tableau, Splunk, Adobe Analytics.
- **Tools:** Jupyter, Google Colab, GitHub, Postman, Microsoft Excel, OpenCV

PROFESSIONAL EXPERIENCE

Full-Stack Developer - CVS Health | Jun 2023 – Present

- Integrated AI and built a website for CVS Health store workers.
- Built scalable healthcare analytics platforms using Django, React, and cloud-hosted infrastructure, including Azure App Service.
- Automated backup and recovery for clinical datasets with Azure Backup, Azure Functions, and Azure Logic Apps.
- Integrated AI/NLP models for summarization and adherence prediction, securely served via REST APIs.
- Engineered encrypted data pipelines using Azure SQL Database, Azure Cosmos DB, and Azure Blob Storage, enforcing IAM-based access controls.
- Deployed Dockerized microservices on Azure App Service with GitHub Actions CI/CD.
- Embedded Power BI dashboards into React UIs for real-time insights.
- Ensured HIPAA-compliant data governance and conducted API security assessments.
- Monitored and optimized production reliability using Splunk and Azure Monitor.

Data Analytics Engineer - Copart | Jun 2022 – May 2023

- Analyzed auction and vehicle performance metrics using Python and SQL to optimize pricing and listing strategies.
- Built interactive Tableau dashboards for operations, finance, and yard teams.
- Designed ETL pipelines to support inventory and customer trend analysis.

- Led data migration from on-prem MariaDB to GCP, enhancing scalability and performance.
- Collaborated with cross-functional teams to streamline analytics and reporting workflows.

Backend Developer Intern - Toyama Home Automation | May 2019 – Jan 2021

- Built Django-based backend for smart home automation integrated with AWS and IoT sensors.
- Enabled control of appliances via React frontend, mobile app, and Alexa voice commands.
- Designed time-based automation logic and centralized sensor data pipelines.
- Deployed secure Dockerized microservices using CI/CD, reducing API latency by 40%.
- Followed test-driven development, implementing unit tests and RESTful microservices.

Sensing and Automation Lead - Project Manas | Oct 2016 – May 2019

- Integrated LiDAR, radar, and camera sensors for autonomous vehicle perception.
- Designed custom PCBs and connected embedded systems to NVIDIA GPU platforms using Embedded C.
- Built sensor fusion and real-time object detection pipelines with OpenCV and deep learning.
- Collaborated with control teams to deploy and validate navigation algorithms.

EDUCATION

Master's in Business Analytics, University of Texas at Dallas, USA

Bachelor's in Mechatronics Engineering, Manipal Institute of Technology, India

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate
- Google Data Analytics Certificate - Coursera
- Deep Learning Specialization - Coursera (Andrew Ng)
- Python for Data Science - edX
- Tableau Desktop Specialist - Tableau