

# Tatipaka Eswar Kumar

Hyderabad, India | +91 9393654247 | [eswar.tatipaka@gmail.com](mailto:eswar.tatipaka@gmail.com) | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## EDUCATION

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**Sagi Rama Krishnam Raju Engineering College**

*Bachelors of Technology (B. Tech) in Computer Science*

Grade : 7.04

July 2021

## PROFESSIONAL SUMMARY

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**Cloud DevOps Engineer**

*Cognizant*

Aug. 2021 – present

*Hyderabad, India*

- 3 years of experience in IT industry with major focus on Cloud DevOps having a Bachelors Degree in Software Engineering.
- Extensive experience on Azure DevOps and GitHub Actions for continuous integration and end to end automation for all build and deployments.
- Configuring and deploying the cloud solutions in the Azure and AWS cloud platforms
- Hands on experience in setting up terraform scripts for new infrastructure as well as existing manually deployed infrastructure.
- Extensive Knowledge on Kubernetes i.e. cloud native service like AKS Cluster.
- Good Understanding of Software Development Life cycle.
- Hands on experience in Containerization.
- Experience in monitoring tools like Grafana and Prometheus.
- Working experience in setting up secured networking flow with private endpoints, private link services etc.
- Good understanding in implementation of Microsoft defender security recommendations.
- Experience in python backend development using Flask framework.
- Having an experience in leading the team by coordinating and explaining the requirements to the team in backend development.
- Experience in analyzing and implementing the different cost optimization techniques for the Azure infrastructure.

## CERTIFICATIONS

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- Azure Fundamentals (AZ-900).
- Azure Administrator Associate (AZ-104).

## EXPERIENCE

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- Developed Python backend rest APIs using Flask framework for an internal web application.
- Developed TypeScript (IaC) scripts for creating AWS and Azure components and used them in the backend API's of the internal web application.
- Experience in creating GitHub Action pipelines for automating the Azure infrastructure deployment and application build and releases.
- Configured and Deployed Argo CD for the deployment of microservices in an Azure Kubernetes cluster.
- Integrated Kubernetes cluster container insights with Managed Prometheus and Grafana for monitoring the AKS workloads.
- Experience in creating the Azure DevOps build and release pipelines for automating the deployment of internal web application in Azure Kubernetes Service.
- Dockerized a java-based web application, prepare helm charts and deployed it in the Rancher cluster.
- Created terraform scripts in modular approach for both Azure and AWS infrastructures with env, layered and resource-based deployments for multiple projects.
- Setup Ansible host in Linux virtual machine and prepared playbooks for configuration management of azure virtual machines.

## PROJECTS

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### Detection of Breast Cancer Recurrence | *Python, HTML, Flask, MongoDB*

- Built a predictor that takes in a patient's medical history and predicts if there is a chance for the recurrence of the cancer . This was achieved by combining the results of three ensembling methods by a soft voting classifier.
- Acquired exposure on various types of datasets and Machine Learning models that suit them.
- The predictor yielded a **90% accuracy and 88% specificity** and also an interactive UI was developed using web development tools that takes in the required data and gives out the results.

### Mobile Carrier Network Strength Mapper | *Scala, Pyspark, Python, Java, BEAST(UCR), Pandas, QGIS*

- Developed a spatial data project involving two polygonal datasets: one detailing city properties in the US and another containing signal strengths of various mobile networks that **reduced 30+ hours** manual work.
- Employed spatial intersection techniques to map properties to available mobile networks with signal strength data.
- Visualized results using **QGIS**, exhibiting the complex process of intersecting polygons from datasets leading to a **70% potential improvement in network coverage** for telecom providers resulting customer satisfaction.

### Forecasting Insurance Premium Prices | *Big Data Techniques, Machine Learning, Python, MySQL*

- Developed a comprehensive insurance premium pricing forecast system using Big Data Techniques, machine learning, Python and MySQL which enabled premium price optimization, **reducing financial risk by 85%**.
- Utilized historical premium prices and disbursed amounts to predict future premiums, enhancing decision-making for insurance companies providing premium recommendations, **improving customer retention rates by 90%**.

## TECHNICAL SKILLS

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**Cloud Platforms:** Microsoft Azure, Amazon Web Services

**Programming Scripting Languages:** Python, TypeScript, PowerShell, Bash

**Tools:** PostgreSQL, MySQL, MongoDB, Redshift, PySpark, Hadoop, Oracle

**Build CI/CD:** Maven, PIP, NPM, GitHub Actions, Azure DevOps, Helm, YAML Pipelines

**Infrastructure as Code (IaC):** Terraform, ARM Templates

**Containerization Orchestration:** Kubernetes, Docker, Rancher

**Monitoring Logging:** Prometheus and Grafana