Venkata Ramana Pamarthy

Gainesville, Florida

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Education

University of Florida (GPA: 3.81/4.0)   **Aug 2022 - May 2024**
Master of Science in Computer Science   *Gainesville, FL*

Sreenidhi Institute of Science and Technology (GPA: 3.87/4)   **Aug 2016 - May 2020**
Bachelor of Technology in Information Technology   *Hyderabad, India*

Skills

Programming skills : Python, Java, C, C++, C# .Net REST API, ReactJS, Javascript, NodeJS, Express, R, HTML, CSS.
Database and Reporting tools : SQL, MySQL, MongoDB, Redis, PowerBI, Data modeling, MS Excel, Azure Dashboards.
Cloud technologies : AWS, Azure DevOps, DevSecOps, Terraform, Docker, Kubernetes, UNIX, Linux, Web Services, Azure SQL, CI/CD, YAML and Classic Pipelines, DNS Zones, Application Gateway, API Management, Azure Monitor, Azure Advisor, Azure Application Insights, Apache Kafka, Apache Spark, Sonarqube, Snyk, OWASP ZAP, JIRA, Jenkins, Maven.
Machine Learning frameworks : NLTK, TensorFlow, Keras, SpaCy, SciPy.
Soft skills : Communication, Teamwork, Problem-solving, Adaptability, Leadership.

Certifications

Microsoft Certified: Azure Fundamentals	**Feb 2022**
Google Cloud Platform Fundamentals: Core Infrastructure	**May 2020**

Work Experience

ADP   **Jun 2023 - Aug 2023**
GPT Full-Stack Application Development Intern   *Alpharetta, GA*

- Fine-tuned backend adapters to communicate to AWS cloud and frontend components for the ADP Marketplace application serving thousands of users.
- Enhanced security of the application by 25% by introducing AWS Secrets Manager to manage secrets in code.
- Amplified the performance by 50% and strengthened the application code by introducing reusable UI components.

University of Florida   **Aug 2022 - May 2023**
Graduate Research Assistant   *Gainesville, FL*

- Conducted research on 2 projects about Topic Modeling and Stance Detection using NLP.
- Designed an application to simulate information spread across different individuals to improve decision-making with 95% accuracy

ValueLabs LLP   **Jun 2020 - Jul 2022**
Senior Software Engineer (DevOps)   *Hyderabad, India*

- Leveraged and maintained cost-effective and highly secure Cloud Infrastructure in Microsoft Azure using ARM templates, Terraform improving performance by 30%.
- Created YAML and Classic Pipelines in Azure DevOps for CI/CD and steered highly secure and high-performance Docker images for microservice deployments on Kubernetes to boost reusability by 2x.
- Pioneered with integrating Snyk and SonarQube into the CI/CD workflow of the product to enhance the security and quality of code by 15% and 10%, respectively.
- Streamlined an automated release workflow into Production reducing release time by 7 hrs.
- Analyzed and produced dashboards to track events and summarize performance, through data from Azure Application Insights and Azure Log Analytics using Power BI and Azure Dashboards increasing visibility by 33%.
- Strengthened the backend by building Web API Microservices using C# .Net improving performance by 25%.

ValueLabs LLP   **Dec 2019 - Mar 2020**
DevOps Intern   *Hyderabad, India*

- Developed C# .Net Microservices and CI/CD Pipelines in Azure with 30% reduction in response time.

Projects

NLP based English Learning Application | (NLTK, Vader Sentiment, Speech Recognition, Tkinter)

- Innovated an application tailored towards the needs of English Language learners to improve language skills by providing Proficiency, Readability Index, Text Analysis, and Sentiment Analysis scores based on the user inputs.

Twitter Engine Simulation using Erlang | (Erlang, Distributed Parallel Processing)

- Built a real-time Twitter simulator application in Erlang to boost distributed parallel processing by 35%.

Outlier Samples Detection with VAE | (VAE, GAN, MNIST, CIFAR-10)

- Trained a Variational Auto-Encoder model to detect samples outside a distribution with 95% accuracy.