

Hemanth Shrinivasan Basavaraj

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EDUCATION

Master of Science: Data Science, State university of New York, Buffalo (GPA 3.74)	<i>Expected January 2025</i>
Bachelor of Engineering: Anna university, Tamil Nadu (GPA 3.77, Gold Medallist)	<i>August 2016 - June 2020</i>

WORK EXPERIENCE

Co-Founder <i>CORNERINK, Hyderabad, IN</i>	<i>September 2022 - August 2023</i>
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- Built a personalized clothing web app using agile and scrum, delivering features for individual and bulk orders
- Integrated AI tools, payments, and order management into **agile workflows**, enhancing efficiency and user experience by streamlining processes consisting of data input and management
- Managed budgeting and sales forecasting, boosting revenue by 15% through cost-saving and optimized pricing strategies

Cloud Data Analyst <i>ACCENTURE, Hyderabad, IN</i>	<i>September 2022 - January 2023</i>
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- Designed disaster recovery strategies with 99.9% data availability through multi-region replication of critical data
- Streamlined failover and recovery processes using Azure Resource Manager templates and Terraform, minimizing downtime by 30% and improving operational efficiency
- Administered and optimized daily backups across various systems, ensuring data integrity and consistency in compliance with data governance standards
- Implemented SSL/TLS encryption for secure data transmission and managed network configurations including VPN and firewall rules to ensure secure and uninterrupted data flow between cloud environments

Cloud Data Associate <i>ACCENTURE, Hyderabad, IN</i>	<i>August 2020 - September 2022</i>
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- Allocated over 1,000 LUNs with 1.2TB storage volumes, optimizing storage resources across SAN and NAS environments for enterprise clients through **Linux/Unix system administration**
- Improved ETL pipeline efficiency, optimized data flows, and ensured seamless integration of up to 500TB of data into cloud storage using Apache Spark and Databricks, enhancing data accessibility and consistency
- Spearheaded the management of over 50 containerized applications using **Docker**, reducing deployment times by 30%
- Orchestrated **Kubernetes clusters** to support large-scale backup and replication processes, ensuring scalability for daily backups
- Automated **CI/CD pipelines** using Jenkins and GitLab, increasing deployment efficiency by 40% and reducing manual configuration by 50%
- Managed over 100 cloud resources using Terraform and Ansible, reducing provisioning times by 60% and improving infrastructure consistency in Azure
- Deployed **Prometheus** and **Grafana** to track backup performance and data replication for 500TB, reducing downtime by 25%
- Reduced **cloud infrastructure** costs by 15% through refined resource allocation and automated scaling strategies

Data Analyst Intern <i>GMR AIRPORT DEVELOPERS, Hyderabad, IN</i>	<i>July 2019 - August 2019</i>
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- Developed real-time dashboards for energy monitoring and utilized AWS EC2 and S3 for scalable storage and data processing
- Evaluated HVAC system data using Excel to optimize performance and uncover inefficiencies

TECHNICAL SKILLS

Programming & Frameworks: Python, Bash, SQL, Java, Shell Scripting, Flask, Django, Pandas, NumPy, Go, Ruby
Cloud & Infrastructure: AWS (EC2, S3, Lambda, RDS), Google Cloud Platform (GKE), Azure, Terraform, Ansible, Helm, Puppet, Chef
Big Data & Databases: Apache Spark, Hadoop, Hive, Kafka, Airflow, Databricks, MySQL, PostgreSQL, MongoDB, Cassandra, Redis
Machine Learning & Developer Tools: TensorFlow, PyTorch, Scikit-learn, Keras, MLflow, Git, Confluence
DevOps & SRE Tools: Docker, Kubernetes, Jenkins, GitLab CI/CD, GitHub Actions, Splunk, Dynatrace, SLIs, SLOs, AWS CloudWatch, Azure Monitor, DNS, TCP/IP, Load Balancing, Infrastructure as Code (IaC), Version control, Data Quality

PROJECTS

IPL Cricket Data Management and Query Optimization
Designed and optimized a PostgreSQL database for IPL cricket data, improving query performance by 50% and deploying a real-time visualization app
Multi-Algorithm Airbnb Pricing Optimization and Web Integration
Developed machine learning models (Decision Tree, Gradient Boosting) and integrated reinforcement learning for dynamic pricing to optimize Airbnb rental prices using 49,000+ listings. Created a web interface to showcase results
Real-Time Data Pipeline for Predictive Analytics on IoT Sensor Data
Engineered a scalable real-time data pipeline using Apache Kafka, Spark, and AWS to ingest, process, and analyze IoT sensor data, enabling predictive analytics and anomaly detection with integrated CI/CD and cloud infrastructure automation

CERTIFICATIONS

Microsoft Azure Administrator (AZ-104)	<i>October - 2024</i>
Microsoft Azure Fundamentals (AZ-900)	<i>April - 2021</i>