

Mohan Babu J

AWS Certified Solutions Architect – Associate

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Education

Florida Institute of Technology, Melbourne, Florida

Master of Science in Engineering Management GPA 3.4

May 2020

PSG College of Technology, Coimbatore, India

Bachelors in Instrumentation & Control Systems Engineering GPA 3.2

May 2013

Skills & Tools

- Cloud services – AWS
- Scripting – Python (Pandas, NumPy, scikit, Matplotlib, plotly), Shell
- Visualization Tools – Tableau, Power BI
- Scripting Platform – Jupyter Notebook, PyCharm
- Bug Tracking Tools – JIRA, Rally
- Databases – MySQL, SQL Server, DynamoDB
- Version Control Tools - GIT, GITHUB, TFS, Subversion (SVN), and Bitbucket
- Container/ Orchestration Tools - AWS ECS, Docker, Kubernetes, Docker Swarm
- Virtualization – VMWare , VirtualBox
- Infrastructure as code – YAML, Terraform
- Configuration Tools – Ansible, Jenkins

Project Experience

Graduate Assistant (Florida Institute of Technology (Melbourne, FL)

August 2018 - May 2020

- Installed application on EC2 instances, configured IAM users and provided security permissions(AWS EC2,Jupyter notebook, Putty)
- Web scraped textual data into structured format, analyzed data through bar chart representation (Python-matplotlib)
- Performed data preprocessing and transformed into readable format through histograms (Python-pandas, Jupyter Notebook)
- Created word cloud and analyzed the information, through Twitter live streaming API (Python-nltk, Jupyter Notebook)
- Created pipeline to load data into AWS RDS, and queried using SQL (AWS, MySQL, Python-boto3)
- Performed statistical approach(hypothesis, normalcy Testing) on real time dataset, to find the trends (Python-NumPy, SciPy)
- Created Visualization for story telling on real time dataset.(Python-seaborn, plotly)
- Developed normalized database for conference events with triggers through MySQL (MySQL, SQLite studio)
- Developed predictive modeling approach to improve the sale of store (Python scikit learn)
- Developed Microsoft based project to track down the progress of project.(Excel solver, Gantt chart, SDLC,SWOT Analysis, DMAIC, Six Sigma, waterfall model)
- Created Business model for product commercialization through entrepreneur strategies(Microsoft power point, Agile, Kanban)
- Created optimized Discrete event simulation model for primary health care, to reduce waiting time. (ARENA)

Professional Experience

Cloud Engineer (Nestle, WIPRO TECHNOLOGIES, INDIA)

May 2016 - July 2018

- Provisioned multiple servers and installed applications through Docker containerization, also configured registry.
- Part of Infrastructure Design & Implement Team for planning and building of VMware/Windows/AWS cloud infrastructure for various applications.
- Configured and created YAML file through docker compose for monolithic applications.
- Experienced in automated Cloud Formation (JSON Scripts) for creating/ administrating the instances with Auto Scaling, Elastic Load Balancers across different Availability Zones
- Performed V2C migration through SMS, Cloud Endure.
- Implemented CI/CD on AWS environment, configured VPC and deployed code for Load Balancers routing the traffic through Auto Scaling group.

- Good understanding and writing Lambda functions using python
- Configured and deployed multi AZ and multi region on AWS.
- Resolved user authentication issues, configured group policies, and troubleshooting network and storage level issues.
- Good understanding on TCP/IP, TLS, UDP,HTTPS, HTTP protocols

DevOps Engineer (Catholic Health Initiatives, WIPRO TECHNOLOGIES, INDIA)

July 2013 - May 2016

- RAID configuration and creation of logical disk with Physical hard drive
- Performed P2V, V2C Migration of servers and developed the migration plan document for 1000+ servers
- Worked on tools AWS cloud endure and platespin for on premise migration.
- Created security groups , life cycle policies and cross account access for S3 buckets
- Created custom users and groups, enabling permissions, and providing permissions on AWS IAM console
- Managed and edited Playbooks and Playbook directories by placing into GIT, using YAML
- Automated the CI/CD pipeline and deployed microservices, provisioned load balancer, auto-scaling group, and launch configuration for microservices using Ansible Performed the data migration, and provided the redundant information on patient records
- Developed the Database to store the patient health information and updated the records using SQL
- Built servers using AWS, launching EC2, RDS, auto-scaling, load balancers (ELBs), creating security groups in the defined virtual private connection (VPC)
- Good knowledge of AWS infrastructure like IAM, Compute services- EC2, Storage Service -S3, EFS, Glacier, Virtual Private Cloud, Subnet calculation, NAT Gateway, Route 53, RDS, DR Activities, ELB, Cloud watch and Cloud trail

Engineering Intern

Pricol Technologies Coimbatore INDIA

May 2012 – June 2012

- Deployed Server systems and configured applications for automation purpose
- Created GUI for interfacing the sensors through LabView

Relevant Courses

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| • Data Analysis using Python | • Database systems | • Statistical Quality Engineering |
| • Supply chain & Logistics | • Commercialization Strategies | • Project Engineering |