BANSIKUMAR MENDAPARA

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EDUCATION

Master of Science - Computer Science — **Expected May 2021**
San Diego State University, San Diego, CA — GPA: 3.82/4

Bachelor of Engineering - Information Technology — **June 2019**
Gujarat Technological University, Ahmedabad, India — GPA 8.08/10

SKILLS

Programming Languages:	Python, Java, C, C++
AWS:	EC2, S3, RDS, Lambda, CloudFront, VPC, CloudFormation
DevOps:	Git, Chef, Jenkins, Ansible, Docker, Kubernetes, Terraform
Database:	MySQL, DynamoDB
Platform:	Linux, Windows
Web Technologies:	JavaScript, Bootstrap, CSS, HTML

PROJECTS

Event-Driven Python on AWS | AWS Lambda, Amazon RDS, CloudWatch Event, AWS CloudFormation

- Performed data manipulation using Lambda function and load data into **RDS** PostgreSQL database
- Configured once-daily **CloudWatch event rule** to trigger Lambda function and notify using SNS
- Created YAML file to launch this infrastructure using **CloudFormation**
- Designed **CI/CD pipeline** using GitHub actions and visualized data using **QuickSight**

Cloud Portfolio/Resume | Amazon S3, Amazon Route53, AWS API Gateway, Amazon CloudFront

- Used S3 to deploy a static website and **CloudFront** to implement HTTPS and OAI
- Created a public hosted zone in Route53 to route the requests to CloudFront distribution
- Managed DynamoDB, Lambda and API Gateway to store, update and retrieve visitor counter
- Addressed **infrastructure as code** using AWS SAM and set up **CI/CD pipeline** using GitHub actions

Highly-Available Dynamic Site-to-Site VPN | AWS Transit Gateway, AWS Site-to-Site VPN, BGP

- Created the AWS and On-premises environments using CloudFormation and 2 **customer gateway** objects which represent the physical On-premises routers
- Established 2 **VPN connections** using transit gateway VPN attachment and each of those connections were made up of 2 tunnels
- Configured 4 **IPSEC tunnels** between 2 On-premises ubuntu strongSwan premises routers and AWS
- Added **BGP** capability using **FRR** to exchange routes with the transit gateway running in AWS

Hybrid Directory and Migration | AWS Directory Service, AWS Workspaces, AWS FSx, VPC Peering

- Simulated On-premises environment in AWS which had windows server running as **Domain Controllers** (Self Managed On-premises Active Directory), file server and simulated client desktop
- Created AWS VPC with a **VPC peer** between AWS and simulated On-premises to simulate a VPN/DX
- Set up AWS managed Microsoft AD and built **two-way forest trust** between AWS and On-premises
- Launched **AWS FSx** and explored DFS Namespaces
- Completed migration by launching AWS **Workspaces** and granted access to an On-premises identity

CERTIFICATION

- AWS Certified Developer Associate
- AWS Certified Solutions Architect Associate
- AWS Certified Cloud Practitioner
- HashiCorp Certified: Terraform Associate
- Microsoft Certified: Azure Fundamentals