BANSIKUMAR MENDAPARA

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EDUCATION

Master of Science - Computer Science GPA: 3.95 **Expected May 2021**
San Diego State University San Diego, CA, USA

Bachelor of Engineering - Information Technology CPI: 8.08 **June 2019**
Gujarat Technological University Gujarat, India

SKILLS

Programming Languages:	Python, Java, C, C++
AWS:	EC2, S3, RDS, Lambda, CloudFront, VPC, DynamoDB, Directory Service
Machine Learning:	Logistic Regression, Linear Regression, KNN, SVM, CNN, RNN
Database:	MySQL, NoSQL
IDE:	Jupyter Notebook, Spyder, Net Beans, VS Code
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

AWS Theme Park - Serverless Web Application | AWS Amplify, AWS SAM, Amazon Kinesis
- Configured **Amplify** to publish the web app and deployed the backend infrastructure using **SAM**
- Populated a **DynamoDB** table containing ride and attraction information for the park
- Launched Amazon **Kinesis Firehose** delivery stream to ingest data of park visitors and designed **QuickSight** to perform business intelligence analytics
- Introduced Amazon **EventBridge**, CloudWatch and SNS to notify ride system outages

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 Solutions Architect Associate
- AWS Certified Cloud Practitioner
- Microsoft Certified: Azure Fundamentals
- Oracle Cloud Infrastructure Foundations 2020 Certified Associate