Manav Bagai

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EDUCATION

Arizona State University, Tempe, USA **August 2018- May 2020**
Master's in Computer Science GPA: 3.83/4
Aligarh Muslim University, Aligarh, India **August 2012- June 2016**
Bachelor of Technology in Computer Engineering GPA: 8.1/10

SKILLS

Programming Languages: Python, Groovy, Java
Cloud Computing: Azure, AWS
Platform Engineering: Jenkins, Terraform, Docker, Kubernetes, SaltStack, Linux, Datadog, Airflow
Data Engineering: MySQL, Neo4J, Druid, Hadoop, Spark, Superset, Nutch, Kafka, Zookeeper
Web Development: Play Framework, Django

EXPERIENCE

Engineer 2, Starbucks, Phoenix, Arizona **June 2020- Present**

- Built self-service pipelines which are currently used by 8 different teams for provisioning and deleting **Azure EventHub Namespaces**, **Eventhubs, and Consumer Groups** using **Jenkins, Groovy, and Terraform**.
- Designed and built **Jenkins Pipeline** to automate the Firewall setup for Azure PaaS resources like **EventHub, Storage Account, Key Vault, MySQL and Cosmos DB**.
- Designed and executed the plan for **upgrade/migration** of **Kafka** clusters using **Replicator** and enabled **SSL** for **Zookeeper**.
- Built **KPI Dashboard** for monitoring and visualizing **Kubernetes clusters (AKS)** using **Datadog**.
- Perform **rotational on-call duties** by solving issues raised by multiple teams.

Graduate Intern, Starbucks, Phoenix, Arizona **May 2019- May 2020**

- Built **Jenkins Pipelines** for provisioning and deleting **Azure Key Vault** using **Groovy and Terraform.**
- Designed and developed a one-click **Jenkins pipeline** that would create the templated **Datadog Monitors** for the selected resource type using **Terraform**.
- Automated email report generation for **Key Vault Secret & SPN Expiration,** and **Release Control** for 4 different projects.
- Architected and developed a **Real Time Analytics Platform** that would capture the Twitter and Google data related to Starbucks, perform analytics, and visualize various trends using **Druid**, **Superset**, **Kafka**, and **Python** as a part of team POC.

Big Data Engineer, Exadatum Software Services, Pune, India **November 2016- February 2018**
Projects:
Ingestion, Analysis, and Visualization of Cardiovascular Patient Data **June 2017- February 2018**

- Worked on an ETL pipeline in **Apache Spark** which is used for ingesting the data in algorithm that computes the Risk Score.
- Orchestrated the data flow using **Apache Airflow** and integrated it with a **REST** web application in **Play Framework.**
- Developed and Optimized a **Docker** Image with **Hadoop stack** installed to make the above system ready to run and deployed.
- Worked on deploying and running the above application on **Stanford University server** and client **AWS** environment.

Recommendation System and Chat-bot **November 2016- May 2017**

- Created the knowledge base by crawling customer support data from Kohl's and Macy's website using **Apache Nutch**.
- Ingested the data in **Neo4J** and written a parser in **Java** to generate hierarchal json to be ingested in **API.AI** for chat-bot.
- Written **REST** web application in **Play Framework** to query **Elastic Search** and send data to the recommendation system UI.

ACADEMIC PROJECTS

Save the Underprivileged Children **January 2019- May 2019**

- Built a web application that connects underprivileged children with NGOs and deployed it on **Google App Engine**.
- Any end-user can upload the image of the unprivileged child which is shared with NGOs and NGOs can assign volunteers.
- Created a facial image database of children using **AWS Rekognition API and Google Cloud SQL**.

Video Surveillance Service **January 2019- May 2019**

- Created a **Play Framework** based web app which is responsible for getting the request from the user and adding it to **SQS**.
- Built AMI for the App tier which consists of the **Deep Learning Model** that detects objects and add the results to **Amazon S3**.
- Designed and developed a **load balancer** which scales the App tier **EC2 instances** based on the number of requests in **SQS**.

ACHIEVEMENTS

- **Stood 1st at University of Arizona- HACK ARIZONA hackathon (36 hours)** **January 2019**
  Part of a 4-member team- built IRIS (Ideal Recruiting, Intelligent Solution) which is an AI based framework for recruiting.