Kaumil Trivedi

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Education

Simon Fraser University   Burnaby, BC, Canada
Master of Science, Professional Computer Science | GPA : 4.05   *Sep 2021 – Apr 2023*

Gujarat Technological University   Ahmedabad, GJ, India
Bachelor in Engineering, Computer Engineering | GPA : 3.68   *Jul 2014 – May 2018*

Technical Skills

Languages : Python, SQL, JavaScript
Tools : AWS, Flask, Spark, CassandraDB, PyTorch, Git, Jenkins, Kubernetes, Elasticsearch, Kibana, Grafana, Pingdom, Prometheus, CloudFoundry

Experience

SAP   Vancouver, BC, Canada
Cloud Engineer Intern   *May 2022 – Dec 2022*
- Maintained **operational excellence** for **SAP Analytics Cloud** and **SAP DataWarehouse Cloud** by ensuring the services ran with **99.5% uptime** and meet our service level agreements by using tools like Grafana, Pingdom, Dynatrace and Kibana.
- Collaborated with **20+** agile developers, devops and network engineers to diagnose and mitigate mission-critical time-sensitive issues to serve **30,000+ clients** across **10+ globally distributed landscapes**.
- Ensured **reliable client workloads** by managing 100% of all the **SAC Capacity and Tenant management** processes comprising of **business-critical tasks** like System/Tenant provisioning and de-provisioning, tenant configuration and feature flag service toggle management.
- Contributed to **SaaS level change management** processes by performing **landscape-wide wave updates** via **blue-green deployments** and AWS scheduled maintenance to ensure the HANA tenants get regular updates and bug-fixes.
- Performed **root cause analysis** to mitigate recurring incidents and partner with other teams to **report crashdumps** and fix the underlying bugs.

Areli Commerce Private Limited   Ahmedabad, GJ, India
Software Development Engineer, Machine Learning   *Apr 2019 – Apr 2021*
- Spearheaded the development of a **E-Commerce search engine** using **Flask API** using **Python, SQL** and **AWS Elasticsearch** for an inventory of **100,000 products** resulting in a better user experience and customer retention.
- Implemented a novel sorting algorithm API using **Python, Flask, Pandas** and deployed it on AWS EC2, **decreasing customer attrition** by 10%.

Projects

NFT Marketplace | *Python, Flask, Kuberenetes, Prometheus, Grafana, Gatling, Kiali, AWS DynamoDB, EKS*   *Feb 2022 – Apr 2022*
- Created a **service-oriented REST architecture** based marketplace web app with CI/CD, load testing and dashboarding.
- Implemented the **Infrastructure-as-a-Code (IaaC)** paradigm and scaled the application to **5000 concurrent users** and **2800 requests/second** using simulated load testing via Gatling.

Crime HeatMap Prediction | *Python, PyTorch, Streamlit*   *Feb 2022 – Apr 2022*
- Experimented to utilise a **novel Convolutional LSTM** model to extract spatio-temporal features to **predict crime hotspots** over Vancouver city with **82% recall** and **71% precision**.
- Worked on developing a **data collection api** to extend model training for multiple cities and predit crime-wise hotspots.

Aviation Safety in Canada | *Python, Spark, AWS S3, Lambda, Glue, QuickSight*   *Oct 2021 – Dec 2021*
- Collaborated in a team to use **Spark, AWS Lambda, S3 and Glue** to implement an **ETL pipeline** to scrape and process civil aviation accident and incident records on a weekly basis and **AWS Quicksight** for dashboarding.
- Developed an unsupervised system using **K-Means clustering algorithm** to determine the possible features leading to fatalities/injuries in an accident.

Certifications

AWS Certified Developer Associate | *Amazon Web Services*   *Nov 2020 – Nov 2023*
Advanced SQL : MySQL Data Analysis & Business Intelligence | *Udemy Inc.*   *Apr 2021*