

PRAMOD PADMAKAR NAGARE

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WORK EXPERIENCE

Senior Software Engineer | Business Intelligence - MicroStrategy | Infosys Limited, India

Jul 2014 – May 2017

Client: American Express, AZ, USA

- Developed multiple interactive dashboards and reports in MicroStrategy for **Enterprise data analysis**
- Managed project lifecycle for MicroStrategy BI architecture with ITIL framework
- Implemented ETL workflows for data integration from various data source to Datawarehouse using Talend and SSIS
- Presented **monthly Infrastructure metrics** to clients with **proven strategic solutions** for resource optimization
- Improved report execution with **SQL optimization and process improvement** using automation
- Automated object migration using MicroStrategy tools and VB Script resulted in **saving 1000+ hours** and related cost with **improved customer satisfaction**
- Conducted Bi-yearly data analysis for **User Access Certification Audit, License optimization**

Machine Learning Engineer Intern | AI Software Development | AI Foundry, Wakefield, MA

Jan 2019 – Aug 2019

- Designed and developed deep vision models for document image classification
- Implemented **10x faster and reliable computer vision solution** for the image processing
- Automated keyword image data collection for classification model with the semi-supervised solution
- Developed a lightweight core software algorithm in Python for document key-value extraction and association
- **Represented technical team in POC** with clients and sales team
- Contributed to product testing utility for quality improvement and better delivery
- **Proactive discussion with SMEs** for the process improvements and automation scope

TECHNICAL SKILLS

- Programming Languages: **Python, Java, SQL**
- Deep Learning framework: **Keras, TensorFlow, MXNET, ONNX**
- Data Science Packages: **NumPy, Pandas, Scikit-Learn, Matplotlib, NLTK, TPOT, H2O, Luigi**
- Business Intelligence Tools: **Tableau, Power BI, MicroStrategy**
- RDBMS Databases: **MySQL, MSSQL, Oracle, Postgres**
- Big Data Technologies: **MongoDB, Hadoop, Spark, Big Query, HBase, Hive, Pig**
- Cloud Platforms: **Amazon Web Services, Google Cloud Platform**
- Software Development Methodologies: **Agile, Waterfall, ITIL**
- Deployment technologies: **Docker, Kubernetes, Ansible, Helm, Prometheus, Jenkins, Circle-CI, Travis-CI, GitHub**

EDUCATION

Northeastern University, Boston, MA. | MS in Computer Software Engineering | Graduation: Dec 2019 | GPA: 3.5

Major Courses: Artificial Intelligence, Advanced Data Science, Business Intelligence & Data warehousing, Engineering of Big Data Systems, Cloud Computing and Containerizations, and Application Engineering & Development

ACADEMIC PROJECTS

Big Data streaming and batch processing analytics pipeline for Amazon Customer Review Analysis

- Developed a GCP Pub-Sub **data analytics pipeline** with cloud storage, Data Flow, Big Query and python
- Implemented different interactive dashboard in Data Explorer for data analytics
- Designed bloom filter and **distributed cache** for high-speed big data filtering to get a review sentiment
- Executed multiple **map-reduce jobs on Hadoop cluster** hosted on GCP and AWS

Data Integration and interactive dashboard for business analysis

- Developed data **dimensional modeling**, implemented slowly changing dimensions for the Datawarehouse
- Optimized ETL workflows for integrating data from multiple data sources using Talend and SSIS
- Implemented multiple SQLs for data analysis and performed **SQL optimization** for long running repots
- Created **interactive dashboards** using Tableau, Power BI and Qlik Sense for business analysis

CICD Pipeline for Recipe application with GitHub - Jenkins – Docker - Kubernetes

- Designed an **HA AWS infrastructure** for hosting Recipe application – frontend and backend using ansible and kops
- Implemented docker container **deployments and rolling updates** on k8s cluster using kops and helm
- Configured an infrastructure for **pod autoscaling and node autoscaling** with resource limit and k8s metrics dashboard
- Collected and visualize application usage statistics with Grafana and Prometheus

Surveillance application: Guns and Knife object detection

- Image data scraping Beautiful Soup, falcon tools for guns and knife objects
- Implemented transfer learning using YOLO V2, Faster R-CNN for model training
- Hosted flask application on AWS EC2 instance with **SNS-Lambda-SES pipeline** to trigger an email