PRIYA LAKSHMI THEAGARAJAN

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Software Engineer with over 4 years of experience in Application development, Data Engineering, Cloud infrastructure and Business analytics projects. Certified Linux and AWS developer.

TECHNICAL SKILLS

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| --- | --- |
| **Languages** | Python SQL C++ JavaScript HTML Java Ruby |
| **Frameworks** | PySpark Django Flask REST API Node.JS React |
| **Tools** | Terraform Chef Ab Initio Tableau Jenkins Docker GCP |
| **AWS** | S3 IAM Lambda ECS EC2 Athena SNS Glue CloudFormation Service Catalog |

EXPERIENCE

**Intuitive Surgical Inc. Software Engineer Intern *Aug 2023 - Present***

Engineering Applications | ***Tableau, Pandas, Python, REST API, SQL***

* Developed Tableau dashboards using data from REST API to manage IT application licenses, resulting in cost reduction of over 20% due to removal of unused licenses
* Building troubleshooting and monitoring utility using logs from Elasticsearch and Machine learning techniques

**College of Medicine Software Engineer *Feb 2023 – Aug 2023***

Medical Resource Database system | ***Django, Python, PySpark, MySQL, HTML, AWS***

* Architected a full-stack inventory database and infrastructure system with Django; streamlined research equipment management and facilitated collaboration between researchers, enhancing resource allocation by 40%
* Improved application rendering time by 30% through pagination and implementing data transformation pipeline to perform data collection, integration, and data processing on records across departments using PySpark on Oracle data warehouse
* Applied data modelling and data governance techniques to build database and executed user access control, notification, and application maintenance to ensure consistency in functionality

**Barclays Software Engineer *Jul 2019 – Aug 2022***

Data Lake creation using server-less ETL pipeline on Cloud | ***AWS, Python, CloudFormation, PySpark, Jenkins***

* + - Led data migration of 12 million US Consumer Banking records from Hadoop/Oracle to AWS Data Lake by developing serverless data transformation pipelines resulting in resource conservation of over 50%
    - Enhanced the incident response time by 80% through designing a real-time monitoring and notification systems by establishing reconciliation between AWS and on-premises resources using Python and Elasticsearch
    - Reduced the development lifecycle by 30% by building and deploying reusable service catalog products via IaaC (Infrastructure as a Code) for AWS services: S3, Lambda, IAM, ECS, Lake formation, SNS, SQS etc.
    - Achieved a 30% cost saving in EC2 server provisioning expenses by implementing adaptive Autoscaling groups and Application load balancers to manage traffic based on CPU and memory utilization
    - Provisioned products are utilized to migrate, monitor, and process history and daily batch loads for over 100 datasets

Business Intelligence Dashboard (BI) - Credit Card Fraud Tubemap | ***PL/SQL, Tableau, Visio***

* + - Modularized complex systems involved in Transactional Fraud Customer journey as a Tube map (An E2E mapping of customer interactions across fraud detection channels) to visualize data flow and lineage
    - Automated dashboard conceptualized with data visualization software Tableau and SQL queries replaced the manual weekly report generated by Fraud Analytics team leading to 80% improvement in report turnaround time

***Achievement:*** *Barclays Global Recognition Award of Excellence (2020); Barclays Value Award for Excellence (2021)*

EDUCATION

**University of Florida** – Master of Science in Computer Science; GPA: 3.72 Aug 2022 – May 2024

**SSN College of Engineering** - Bachelor of Engineering in Computer science; Jul 2015 – Apr 2019 PROJECTS

Social Media web application using MERN Stack | ***Node.JS, ReactJS, Express JS, Mongoose |*** [***GitHub***](https://github.com/lakshiya/social-media-webapp)

* + - Developed and hosted full-stack Node.JS application using React for front-end, and Express.JS for back-end with Mongoose database cluster for storage
    - Designed social media web application with CRUD operations with react-redux for centralizing application state

CERTIFICATIONS

***AWS Associate Developer*** : Certified developer with hands-on experience in core, networking and CI/CD services

***Linux Certifications*** : [Fundamentals of Red Hat Enterprise Linux](https://coursera.org/share/915de765e551db9fd7df85a27cc8725a), [Learning Linux for LFCA Certification](https://coursera.org/share/2d99ecfee1d2f4e92f1c7b66598206aa), [Hands-on Introduction to Linux Commands and Shell Scripting](https://www.coursera.org/account/accomplishments/certificate/VS7GFKTM279)