

PRIYA LAKSHMI THEAGARAJAN

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TECHNICAL SKILLS

Programming Languages: (Proficient) Python, SQL, C++ ; (Familiar) JavaScript, HTML, Java, Ruby

Frameworks: PySpark, Django, Flask (REST API), Node.JS, React

Tools: Terraform, Chef, Ab Initio, Tableau, Jenkins, Docker

AWS: S3, IAM, Lambda, EC2, ECS, Athena, StepFunction, SNS, CloudFormation, Glue, Lakeformation, ServiceCatalog

EXPERIENCE

University of Florida

Feb 2023 - Current

Software Development Engineer Intern

College of Medicine - Medical Inventory system | *Django, Python, PySpark, SQL, AWS*

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

Barclays

Jul 2019 - Aug 2022

Software Developer

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

- Led data migration of 12 million US Consumer Banking records from Hadoop/Oracle to AWS Data Lake by creating serverless data transformation pipelines resulting in cost reduction of 50% with high availability
- Improved incident response time by 80% through implementing real-time monitoring and notification systems and reconciling between AWS resources and on-premises services using Python and Elastic stack
- Reduced the development lifecycle by 30% by developing and deploying reusable service catalog products via IaC (Infrastructure as a Code) for AWS services: S3, Lambda, IAM, ECS, Lake formation, Glue, Athena, State Machine
- 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.

EDUCATION

University of Florida

May 2024

Master of Science in Computer Science; GPA: 3.72

Gainesville, FL

SSN College of Engineering

Apr 2019

Bachelor of Engineering in Computer science

Chennai, India

PROJECTS

Social Media web application using MERN Stack | *Node.JS, ReactJS, Express JS, Mongoose* | [GitHub](#)

Jul 2022

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

Smart Surveillance system | *Python, OpenCV, Raspberry Pi, Pi Camera*

Mar 2020

- Created a face detector using Haar cascade and OpenCV to set up smart surveillance with pi-camera
- Trained the model to identify the pictures of family members with 80% accuracy and alert users for unknown faces
- Intelligent and cost-friendly home security solution to catch intruders resulting in response time improvements of 60%.

CERTIFICATION

AWS Developer: Certified AWS Developer with hands-on experience in implementing CI/CD pipeline and AWS services such as ElasticBeanstalk, SQS, ECR, Cloud Config, EKS, SNS, Redshift, Glue & Step Function, etc

ACHIEVEMENTS

Barclays Recognition Award for Excellence: Awarded by Barclays Global recognition committee for delivering one of the most complex customer journey BI storyboard - Fraud.