

PRIYA LAKSHMI THEAGARAJAN

Mountain View, CA 94040

[linkedin.com/in/priya-lakshmi-theagarajan/](https://www.linkedin.com/in/priya-lakshmi-theagarajan/) | 352-328-2621 | ptheagarajan@ufl.edu | github.com/lakshiya

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

Languages	Python	SQL	C++	JavaScript	HTML	Java	Ruby			
Frameworks	PySpark	Django	Flask	REST API	Node.JS	React	NLTK			
Tools	Terraform	Chef	Ab Initio	Tableau	Jenkins	Docker	GCP	Salesforce Einstein Analytics		
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 IaC (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**

- 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](#), [Learning Linux for LFCA Certification](#), [Hands-on Introduction to Linux Commands and Shell Scripting](#)