

# SHOPHINE SIVARAJA

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## EDUCATION

UNIVERSITY OF GEORGIA, **Master of Science in Computer Science**

August 2019 – May 2021

Coursework: Data Science Practicum, Algorithms, Computer Networks, Software Security Cyber Forensics, Cloud Computing

GPA: 3.94 / 4.0

ANNA UNIVERSITY, COLLEGE OF ENGINEERING GUINDY, **Bachelor of Engineering in Computer Science**

August 2015 – April 2019

Coursework: Data Structures, Algorithms, Machine Learning, Security, Networks, Operating System, Software Engineering

GPA: 3.74 / 4.0

## TECHNICAL SKILLS

Programming Languages: JAVA, C, C++, SQL, AngularJS, NodeJS, PHP, Python, JavaScript, Ruby

Databases: MySQL, MongoDB, Postgres SQL, SQLite

Frameworks: Spring Boot, MVC, Express, Firebase, React, Jekyll, Dask, Spark

Tools & Services: Git, Jenkins, JUnit, Amazon Web Services, Docker, Redis, Apache Kafka, SonarQube, TensorFlow, Keras, Scikit-learn

## PROFESSIONAL EXPERIENCE

CRST EXPEDITED

Atlanta, GA

**Software Engineer I**

June 2021 – Present

- **Migrated** a monolithic system to **end-end microservices** with RESTful APIs using Spring Boot.
- Designed and developed a **production-ready** messaging, fleet-view module for customers and agents in AngularJS.
- Extensively worked on writing APIs, converting queries from JDBC implementation to Spring Data JPA to **eliminate boiler plate codes**.
- **Optimized** the app components to improve the system performance by **30%**. Worked on microservice's **CI/CD pipelines**.
- **Mentoring** a team of three intern developers and **leading** a module in the project.

*Technologies Used:* Spring Boot | Angular JS | SQL | Docker | Jenkins | SonarQube | Apache Kafka | Redis

UNIVERSITY OF GEORGIA

Athens, GA

**Software Developer (Research Assistant)**

February 2020 – May 2021

- **Developed and designed** a user-friendly website in Jekyll by creating layouts, writing methods in Ruby to generate contents from data files and **automating CI/CD pipelines** for deployment.
- **Worked with a team of three**, writing controllers in ASP.NET MVC framework and performing LINQ queries in C# for SQL Server database.
- **Strategized and improved** the process of generating reports with an enhanced dashboard and reduced the researcher's workload by **40%**.

*Technologies Used:* Node.js | MVC | AWS | Jekyll | Python | C# | MySQL | Git

SOFTLOGIC INFOSYSTEMS PRIVATE LIMITED

Chennai, India

**Java Developer Intern**

April 2017 – May 2017

- **Developed an android application** in JAVA for the eLearning system and **integrated** it with backend services by REST API.
- **Implemented** the UI design for the coursework module for premium users in an eLearning system.

*Technologies Used:* JAVA | Android | MySQL | NodeJS | REST | Git

## PROJECT EXPERIENCE

**Ethical Facial Recognition**

February 2021 – March 2021

- Developed an algorithm that predicts the gender from a large-scale dataset. The neural network model was built in Keras with Spark distributed environment to **achieve 90% accuracy**.

*Technologies Used:* Python | Spark | TensorFlow | Keras | Google Cloud | Distributed Systems | Git

**Microsoft Malware Classification Challenge**

January 2021 – February 2021

- Developed a classifier with **94% accuracy** in a distributed fashion with Google Dataproc and tested our model with Scikit-learn libraries.

*Technologies Used:* Python | Dask | Google Cloud | Distributed Systems | Git

**Online Movie Booking Application**

October 2020 – December 2020

- Built a website for movie booking application and **developed end-end architecture** in Spring Boot MVC pattern.

*Technologies Used:* Spring Boot | Spring Data | Spring JPA | JSP | Hibernate | JAVA | MVC | AJAX | JavaScript | Git

**Estimating end-end performance of Google Cloud Serverless Function**

September 2020 – November 2020

- Worked on **performance analysis of APIs in Google Serverless Function** to provide performance factors in Service Level Agreements.

*Technologies Used:* Google Cloud | NodeJS | Express | API | REST | Git

**HTTP Downloading with Range Requests**

August 2019 – September 2019

- Implemented a **JAVA Multithreaded application** that requests an object in various range via HTTP calls, reconstructed it back to the original object, and verified the correctness using SHA256 checksum.

*Technologies Used:* JAVA | API | Git

**Unobtrusive Authentication of smartphone users by context-aware behavioral biometrics**

January 2019 – April 2019

- **Created an android app** to build a multi-modal (Gait, Geospatial) behavioral biometrics and used location-based data modeling using Geofence to **improve the accuracy of the system to 95%**. Implemented Access Level Service Provider based on the outcome of the model.

*Technologies Used:* JAVA | Android | NodeJS | Express | R | Git

## LEADERSHIP

**Workshop Organizer**, CEG Tech Forum, Anna University

September 2017 – February 2018