

# BALAJI HARIHARAN N S

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Software Engineer | Full-Stack Developer | Java/Python Developer

## CAREER OBJECTIVE

Motivated software developer seeking opportunities to apply strong skills in Java, Python, SQL, and full-stack development to build scalable, high-quality applications. Passionate about problem-solving, clean code practices, system optimization, and contributing to collaborative engineering teams in a dynamic IT environment.

## EDUCATION

### KONGU ENGINEERING COLLEGE,

ERODE

Master of Computer Applications.

### PSG COLLEGE OF ARTS & SCIENCE,

COIMBATORE

Bachelor of Information Technology.

### SAMBAVIGA HIGHER SECONDARY SCHOOL,

SIVAGANGAI

HSC.

### SAMBAVIGA HIGHER SECONDARY SCHOOL,

SIVAGANGAI

SSLC.

Present

CGPA: 8.69\*

2021-2024

CGPA: 8.2

2020-2021

Percentage: 80.91

2018-2019

Percentage: 77.2

## PROJECTS AND RESEARCH

### ENERGY CONSUMPTION FORECASTING USING LSTM

Built a deep learning model using Python, TensorFlow/Keras, NumPy, Pandas, Matplotlib to forecast future energy usage from historical data.

Improved prediction accuracy by implementing data cleaning, feature engineering, and model tuning.

Demonstrated strong understanding of ML pipelines, time-series forecasting, and LSTM networks.

### RECIPE RETRIEVAL

Developed a personalized recipe recommendation system using user preference history and intelligent filtering algorithms.

Technologies: React.js (Frontend), MongoDB (Database), Node.js (Backend). Implemented REST APIs and dynamic UI components for real-time suggestions.

### STUDENT MANAGEMENT SYSTEM

Created a desktop application using Java + JDBC + MySQL.

Implemented CRUD operations with proper exception handling and data persistence.

Strengthened skills in OOP, database connectivity, and UI design.

### E-COMMERCE WEBSITE

Designed a responsive fashion e-commerce platform using HTML5 and CSS3.

Built structured product pages, navigation system, and user-friendly layouts.

Demonstrated understanding of frontend development and responsive design principles.

## TECHNICAL SKILLS

### PROGRAMMING LANGUAGES

- C
- JAVA
- PYTHON
- JAVASCRIPT
- C sharp
- PHP

### WEB TECHNOLOGY

- HTML
- MERN
- CSS

### IDE AND TOOLS

- VScode
- Eclipse
- Git • Github

### DATABASE AND PLATFORMS

- SQL
- AWS EC2 , S3

## ACHIEVEMENTS

### GITHUB FOUNDATION

Gained practical knowledge of version control, repository management, and collaborative workflows using Git and GitHub.

### SOFTWARE TESTING

Trained in manual testing principles, test case design, defect tracking, and basic automation concepts.

## ADDITIONAL

## INFORMATION

- Languages - English,Tamil.
- Soft Skills - Problem solving,Team collaboration, Time management

## SOCIAL LINKS

<https://github.com/balajihariharan01>

[www.linkedin.com/in/balajihariharanns](https://www.linkedin.com/in/balajihariharanns)

<https://leetcode.com/u/balajihariharan/>

<https://balajihariharanns.vercel.app/>