Balaji S

Fresher

✉ balajiselvaraj12@gmail.com 📍 Coimbatore, Tamil Nadu 📞 9360201078

in balaji-s-2bb586240 ⚙ github.com/Balaji021

</> Hackerrank </> LeetCode

Career Objective

To secure a position in a forward-thinking organization where I can apply my foundational knowledge of Java, C, and full-stack development, while gaining practical experience and growing professionally. I am passionate about solving real-world problems, adapting to emerging technologies, and working collaboratively in team environments. With a strong commitment to continuous learning, I aim to contribute positively to the organization's goals through dedication, creativity, and a proactive mindset.

Education

Dr. N.G.P. Institute of Technology   **Tamil Nadu, India**
Bachelor of Technology - Information Technology   November 2022 - Present
CGPA: 8.57 (till 6th semester)

R.J. Matriculation Higher Secondary School   **Tamil Nadu, India**
Higher Secondary Certificate (HSC)   March 2022
Percentage: 88.3%

R.J. Matriculation Higher Secondary School   **Tamil Nadu, India**
Secondary School Leaving Certificate (SSLC)   May 2020
Percentage: 94.2%

Skills Summary

- **Programming Languages**: C, JAVA, Python, HTML, CSS
- **Databases**: MongoDB, MySQL, XAMPP
- **Frameworks & Libraries**: Flutter, React
- **Development Tools**: Git, VS Code, Eclipse, Android Studio
- **Platforms**: Web, Windows, Android
- **Computer Skills**: MS Office, Excel, PowerPoint
- **Technical Skills**: Problem-solving
- **Soft Skills**: Leadership, Event Management, Time Management, Teamwork, Adaptability

Projects

- **File Encryption and Decryption using ECC**: Created a safe multi-layered authentication system with Quantum Key Distribution (QKD), facial recognition, and passwords for medical data. Quantum key exchange and encryption are made possible by the integration of ECC and QKD. With **35–40%** CPU usage, a 10 MB file was encrypted in **3.2 seconds**, guaranteeing high efficiency. The technology complies with healthcare regulations, improves data privacy, and fends off quantum threats.   **Jan 2025 - Apr 2025**
  Tech: Dart
  Tools: Android Studio, Git
  Framework: Flutter

- **Brain Tumor Classification (Machine Learning)**: This project involved analyzing brain tumors using X-ray images, employing ensemble techniques combined with data augmentation , which enhanced the accuracy to **93%** and improved the robustness of the results.   **May 2024 - Aug 2024**
  Tech: Python
  Tools: Jupyter Notebook

- **Cowrie Shell Dataset Creation for Classification Tasks Using Machine Learning**: Created and published comprehensive dataset on Kaggle with labeled images of **Cowrie Shells** for classification tasks. This dataset provides valuable resources for researchers and practitioners working on machine learning models in the domain of object recognition and classification. **May 2024 - Jun 2024**
  Tech: Python
  Tools: Jupyter Notebook

- **Smart Parking System using IoT**: Developed a Smart Parking System to find the parking slot in the parking space. This was accomplished by using some sensors and Arduino UNO. **Aug 2023 - Feb 2024**
  Tech: Embedded C
  Tools: Arduino UNO

INTERNSHIPS

- **Summer Intern at National Institute of Technology, Tiruchirapalli**: Worked on machine learning problems and applied various ML algorithms to real-world datasets. Gained hands-on experience in model development and evaluation. Also developed the **Cowrie Shell Dataset** for multi-model classification, published on Kaggle. View .

- **Internship at KrishTec, Coimbatore**: Completed a 7-day internship focused on the fundamentals of IoT. Gained hands-on experience in developing responsive IoT applications and integrating core functionalities.

Area of Interest

Software Programming, Performance Optimization, Business Intelligence, Full stack development, Database Management Systems

Technical & Industrial Exposure

- Workshop on **Artificial Intelligence** at **Bannari Amman Institute of Technology** in 2024
- Workshop on **Quantum Computing** at **IIT Madras** in 2022

Certifications

- Java Programming
- Problem Solving through Programming in C
- Introduction to Industry 4.0 and Industrial Internet of Things

Honors and Awards

- Winner in Paper Presentation
- Winner in Competitive Coding
- Worked on more than 100 problems focused on data structures and algorithms on LeetCode.
- Second Runner-Up at Anna University Sports Board (Karate) – December 2023

Extra-Curricular Activities

- **Karate**: Achieved **First Place** in a **National-Level Karate Championship**.
- **Skating**: Secured **Two Championship Titles** in an **Intra-Academy Skating Competition**.

Personal Details

Date of Birth: 2nd November 2004

Linguistic Skills: English, Tamil, Hindi (Read & Write only)

Personal Qualities: Creative Thinker, Quick Learner, Patience