

Balaji S

Fresher

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</> 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

Bachelor of Technology - Information Technology

CGPA: 8.57 (till 6th semester)

Tamil Nadu, India

November 2022 - Present

R.J. Matriculation Higher Secondary School

Higher Secondary Certificate (HSC)

Percentage: 88.3%

Tamil Nadu, India

March 2022

R.J. Matriculation Higher Secondary School

Secondary School Leaving Certificate (SSLC)

Percentage: 94.2%

Tamil Nadu, India

May 2020

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 secure multi-layered authentication system using Quantum Key Distribution (QKD), facial recognition, and passwords for medical data. The integration of ECC and QKD enables quantum key exchange and encryption. At **35–40%** CPU usage, a 10 MB file was encrypted in **3.2 seconds**, ensuring high efficiency. The technology meets healthcare regulations, enhances data privacy, and protects against quantum threats.
Jan 2025 - Apr 2025

Tech: Dart

Tools: Android Studio, Git

Framework: Flutter

- **Brain Tumor Classification (Machine Learning):** This project focused on studying brain tumors using X-ray images. It uses ensemble techniques along with data augmentation. This approach raised the accuracy to **93%** and strengthened the results..
May 2024 - Aug 2024

Tech: Python

Tools: Jupyter Notebook

- **Cowrie Shell Dataset Creation for Classification Tasks Using Machine Learning:** Created and published a dataset on Kaggle with labeled images of **Cowrie Shells** for classification tasks. This dataset offers useful resources for researchers and practitioners working on machine learning models in the field 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 locate available parking spots. This was done using sensors and an 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 different ML algorithms to real-world datasets. Gained practical experience in model development and evaluation. I also developed the **Cowrie Shell Dataset** for multi-model classification, which I published on Kaggle. [View Dataset](#) .
- **Internship at KrishTec, Coimbatore:** Completed a 7-day internship focused on the basics of IoT. Gained hands-on experience in creating responsive IoT applications and integrating key features.

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 over 100 problems that 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