

# Baalaji M

Puducherry, India

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## Profile

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Computer Science undergraduate specializing in Android and Full-stack development, with hands-on experience in building and deploying scalable applications. Passionate about end-to-end development, cloud integration, and delivering user-focused solutions.

## Education

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### **Puducherry Technological University**

2022 – 2026

B.Tech in Computer Science and Engineering

CGPA : 9.00 (Upto 5th Semester)

### **Petit Seminaire Higher Secondary School**

2021 – 2022

Higher Secondary Education (Class 12)

Percentage: 98.8%

## Work Experience

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### **• Java Development Intern – Cornet Technology (India) Pvt. Ltd.**

2023 (3 Weeks)

*Desktop Application Development – Java Swing, VLCJ*

- Developed a custom surveillance-oriented media player using Java Swing and VLCJ, following software development principles and industry standards.
- Integrated the project module with the company's hardware product, ensuring seamless compatibility and deployment.

## Projects

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### **• We Safe – Women Safety App**

*Java, Python, Android, Firebase, IoT, Machine Learning*

- Built an SOS Android app integrated with a wearable IoT device that tracks heart rate and ambient sound.
- Used DBSCAN machine learning algorithm to learn user-safe paths and applied geofencing for anomaly detection.
- Triggered automatic alerts to police/emergency contacts via Firebase Cloud Messaging.

### **• Attendify – Attendance Automation App**

*Java, Android, Firebase*

- Developed teacher-student role-based app for location-verified classroom attendance.
- Integrated geofencing, dynamic codes, and Firebase RTDB with push notification triggers.

- **FramePic – Custom Frame Shopping Site**

*React.js, Node.js, MySQL, Docker*

- Built full-stack shopping site with customizable product options and cart management.
- Used Express.js MVC backend, Sequelize ORM, and containerized app with Docker.

- **Phoenix Player – Desktop Media Player**

*Java Swing, VLCJ*

- Developed a desktop media player with GUI for video playback following software development principles and industry standards.
- Integrated the module with hardware component.

- **Hospital Database Management System**

*MySQL*

- Designed 3NF relational database with ER modeling for hospital operations.
- Wrote complex queries handling joins, constraints, and ACID-safe transactions.

## **Skills and Languages**

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**Programming Languages:** Java, SQL, C, C++

**Frameworks & Libraries:** React.js, Express.js, VLCJ

**Mobile and Web:** Android (Java), Node.js, HTML/CSS/JS

**Databases:** MySQL, Firebase (Firestore and Realtime DB)

**Tools & DevOps:** GitHub, Docker, Kubernetes

**Spoken Languages:** Tamil (Native), English (Professional)

## **Achievements & Technical Contributions**

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- **2nd Prize – InventX: Jigyasa 2025 (National-Level Ideathon)**

*Puducherry Technological University*

- Developed *WeSafe*, an end-to-end automated women's safety system with real-time alerts and emergency triggers.
- Recognized for innovation and social impact.

- **Finalist – HackXelerate'25 (24-Hour National Hackathon)**

*KPR Institute of Engineering and Technology, Coimbatore*

- Designed and deployed a rapid prototype of *WeSafe* as part of an interdisciplinary team of 5.
- Gained experience in live pitching, time-bound development, and team collaboration.