SOUNDARAPANDIYAN

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Professional Summary

Security-driven engineer building intelligent Android applications that blend AI precision with user-centric privacy. Experienced in Kotlin, biometric authentication, offline-first architecture, and multi-layered security design. Skilled in deploying hybrid AI pipelines, encrypted storage, and real-time risk detection systems with measurable impact.

Technical Skills

- **Languages & Frameworks:** Python, Kotlin, Java, JavaScript, Django, React.js, TensorFlow, Py Torch
- **AI/ML & Tools:** Sentiment analysis, model distillation, synthetic datasets, OpenCV
- **Databases & APIs:** PostgreSQL, MySQL, Firebase; REST, HTML5, CSS3, JSON
- **Tools & DevOps:** Git, Postman, IntelliJ, VS Code, Android Studio; Docker, CI/CD

Projects

AI-Powered Women's Safety (Android Application)

Kotlin, Firebase, Python, TensorFlow, OpenCV

- Developed a real-time mobile application for women's safety featuring live SOS alerts and location tracking.
- Trained and integrated a machine learning model to detect anomalies and predict emergencies with 90% accuracy.
- Connected heart-rate sensors from smartwatches to enable automatic SOS triggers via biometric signals.

AegisPass – Secure Password Manager (Android Application)

Kotlin, SQLite, jBCrypt, AndroidX Crypto, AI

- Secured password vaults using AES-256 with unique salts for encrypted data at rest.
- Applied jBCrypt for master password hashing with anti-brute force protection.
- Engineered a Digital Risk Assessment module to evaluate password strength, reuse, and age; integrated with HaveIBeenPwned API to flag breaches.

Nous Guard – Offline AI Mental Wellness Companion (Android Application)

TensorFlow Lite, ONNX, AES-256 encryption, Kotlin, Room DB

- Reduced app launch time by 35% via UI thread optimization and primitive data tuning.
- Integrated hybrid AI pipeline (TFLite + ONNX) for offline intent detection with 28% improvement in responsiveness.
- Built secure journaling system with AES-256 encryption and biometric access, protecting mental health records.
- Included root/jailbreak detection and tamper-proof architecture to enhance data integrity.

Internship Experience

Software Development Engineer Intern – Bluestock Fintech Pvt Ltd, Remote

(Feb 2025 – Mar 2025)

- Built modular UI components using Spring Boot, increasing engagement by 25%.
- Deployed microservices with MySQL backend, reducing API latency by 30%.
- Optimized SQL queries, improving data retrieval speed by 40%.
- Worked in Agile sprints, enhancing delivery cycles and collaboration.

Education

B.Tech in Information Technology, Anna University, Tiruchirappalli.

October 2021 – March 2025

- **CGPA:** 7.8 / 10
- **Relevant Courses:** DSA, OOPS, DBMS, OS, CN, System Design, Agile, SDLC, AI/ML

Certifications & Achievements

- Prompt Engineering - Guvi
- Spring Boot API Development – HackerRank
- Agile with Scrum – Coursera | SQL Design – Infosys Springboard
- 550+ problems solved on LeetCode & HackerRank
- Optimized APIs for 30% more concurrency and 45% lower latency