Syed Sahil A

Chennai, Tamil Nadu, India

📞 8680974746   in LinkedIn   ✉ syedsahil28803@gmail.com   GitHub   🌐 Portfolio

CS graduate with hands-on experience in app development, time series analysis, and hardware systems. Comfortable with Swift, Java, C++, Python, and OOPS. Familiar with core data structures and problem solving. Experienced in collaboratively building responsive web apps with secure authentication and data handling workflows. Enjoy being communicative and independent to create practical solutions using clean design patterns, and unit testing.

Experience

Gen Digital Inc. (Formerly Symantec and NortonLifeLock)   **Chennai,** Onsite
Role: Software Engineering Intern   *Jan 2025 – Jul 2025*

- Refactored iOS code, designed a UI screen for Norton VPN, supporting a minor release and fixing 5 P2 bugs.
- Wrote unit tests with 90% coverage to verify logic across 2 modules.
- Migrated SafeSocial's data from PostgreSQL to DynamoDB, cutting query latency by 35% on large datasets.
- **Languages and Frameworks:** Swift, UIKit, SwiftUI, Xcode, XCTest, MVVM.
- **Certification:** Internship Completion Letter

Centre for Sponsored Research and Consultancy (CSRC) – Anna University   **Chennai,** Hybrid
Role: Fellowship Intern   *Oct 2023 – Mar 2024*

- Built NavAid with real-time voice alerts and object detection for 91 classes.
- Integrated dual navigation (with/without GPS) using LangChain.
- Deployed on Raspberry Pi, achieving 98.63% detection accuracy.
- **Languages and Frameworks:** Python, Raspberry Pi, LangChain, pyttsx3.
- **Certification:** CSRC Appreciation Certificate

Other Experience: Freelancer - Capital Educational and Charitable Trust *(Jun 2023 – Aug 2023)*

Education

Anna University, *B.E.* in *Computer Science and Engineering* - **CGPA:** (9.05/10.00)   *Sep 2021 - May 2025*
Coursework: C and Java Programming, ADP, DSA, DBMS, OS, ML, Information Security.

Skills

Software/Development Tools: Xcode, Visual Studio Code, Git, ChatGPT, Terminal, GitHub, Google Colab.
Soft Skills: Collaboration, Critical thinking, Time management, Software Development, Growth mindset.
Languages: Swift, Python, Java, HTML, CSS, JS, PHP, C, C++, SQL, Kotlin.
Hardware and OS: iOS Mobile, Raspberry Pi, Digital components, Windows, Ubuntu, Mac OS.

Projects

FallGuard: A Time Series Deep Learning Model for Intelligent Fall Detection
- FallGuard detects falls from wearable sensor data, mitigating 2+ vision-based system limitations.
- Uses triaxial sensor signals, SMOTE augmentation, and InceptionTimePlus for classification.
- Achieved 98.84% accuracy and 96.29% fooling rate, outperforming 4 deep learning baselines.

GaitSense: Exploiting Time Series Drifts for Classification of Gait Movements
- GaitSense identifies temporal distribution shifts for freezing episodes, addressing 43.35% classification drop.
- Combines PCA, SMOTE, and TCN on triaxial inputs for drifts classification found with Bayesian detector.
- Outperformed 3 drift detectors with 96.9% accuracy and 92.3% fooling rate on Daphnet dataset.

NavAid: Integrated Assistive System for Object Detection and Blind Navigation *GitHub*
- NavAid assists visually impaired users by detecting 91 objects and guiding with voice and GPS.
- Built with YOLO, Haar cascades, pyttsx3, GPS sharing, and LangChain for offline navigation.
- Deployed on Raspberry Pi with 98.63% detection accuracy and real-time feedback support.