Syed Sahil A

Chennai, Tamil Nadu, India

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CS graduate with hands-on experience in iOS development and testing, time series analysis, AI, and hardware systems. Comfortable with Swift, Java, C++, Python. Familiar with core data structures and problem solving. Experienced in collaboratively building responsive web apps. Seeking to apply Swift, UIKit, and SwiftUI skills with clean design principles and AI, being communicative and interactive.

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-C, Combine.

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, OpenCV, Raspberry Pi, LangChain, pyttsx3.

More Experiences: Click Here
Certifications: Internship Completion Letter | CSRC Appreciation Certificate

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.

More Projects: Click Here

Education

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

Skills

Languages/Platforms: Swift, Python, Java, C++, SQL, Kotlin, HTML, CSS, JS, PHP.
Frameworks: SwiftUI, UIKit, XCTest, Combine, PyTorch, OpenCV, Flask, sklearn, STL.
Tools: Xcode, VS Code, Terminal, ChatGPT, GitHub, GitHub Pages, Jira, Google Colab.
Development Practices: MVVM-C, TDD, CI/CD, Agile, Design Patterns, Modular Programming.
Hardware and OS: iOS Mobile, Raspberry Pi, Digital components, Windows, Ubuntu, Mac OS.