SWARIT OMI UPADHYAY

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OBJECTIVE

Enthusiastic undergraduate developer eager to contribute to impactful and innovative software solutions.

EXPERIENCE

- Created a lightweight Swift Tutorials website inspired by Svelte.dev tutorials.
- Created a Face Recognition Attendance System.
- Interned at CRIEYA on the Aaroth project as a full stack developer and systems engineer.
- Created multiple production level projects and hosted several bootcamps and workshops as the technical lead at the Swift Coding Club
- Created "Learnomata", an app to learn and experiment with algorithms and DFAs made for the Swift Student Challenge 25.
- Developed "Sarthi" a college campus navigation app offering both indoors and outdoors navigation using SwiftUI and GoogleMaps API.
- Utilized React Native, and NodeJS to create an application for event management and ticket booking app tailored for college events, enabling students to browse, book, and manage event tickets with ease
- Created an app for mental health and life wellness in Xcode for the Swift Student Challenge 24.

EDUCATION

MIT School of Engineering, MIT-ADT University - Pune, India: Bachelor of Technology: Information Technology (Software and Mobile Application Development) Semester VII

QUALIFICATIONS AND TECHNICAL SKILLS

Personal Skills

- Effective Communication Skills
- Detail Oriented and Organized
- Infusing Innovative Solutions
- Analyze Technical Problems
- Strong Troubleshooting Techniques

Technical Skills

- Swift, Go, C++, Java, TypeScript, Python, Kotlin
- SwiftUI, Jetpack Compose, React, React Native, SvelteKit
- Xcode and Android studio
- SQL, MongoDB
- Git
- Linux

CERTIFICATES

AWS Academy Cloud Foundations: [Link to Certificate](#)
Certificate of Excellence in Technical Competency: [Link to Certificate](#)
DevTown Backend Web Development Certificate: [Link to Certificate](#)
IIT Spoken Tutorial Python Certificate (90%): [Link to Certificate](#)
IIT Spoken Tutorial Java Certificate (92.5%): [Link to Certificate](#)
IIT Spoken Tutorial RDBMS PostgreSQL Certificate (92.5%): [Link to Certificate](#)
IIT Spoken Tutorial PHP and MySQL Certificate (80.56%): [Link to Certificate](#)

PROJECT DETAILS

Internship at CRiEYA – Project Aaroth

Role: Full-stack Developer & Systems Engineer
Technologies: Flask, Jetpack Compose, Raspberry Pi, AWS, React
Description:
Contributed to the development of Aaroth, a body composition analyzer aimed at student health initiatives. Led backend development in Flask, created a companion Android app, and managed the Raspberry Pi hardware-software integration. Initially deployed using AWS, the system was later migrated to a secure local setup using Zerotier. Also developed the official React-based website for the project.

Swift Tutorials

Role: Full-stack Developer
Technologies: SvelteKit, Go, Docker
Description:
Developed a lightweight, interactive tutorial platform for Swift, inspired by the Svelte.dev tutorials experience. Built the frontend with **SvelteKit** and implemented a fast, efficient backend in **Go**, enabling real-time code execution through a Docker-based Swift sandbox. Integrated **SourceKit-LSP** to provide syntax highlighting, autocompletion, and error diagnostics within the in-browser editor, creating an engaging environment for learning Swift programming concepts.

Face Recognition Attendance System (FRT)

Role: Solo Developer
Technologies: Python, TensorFlow Lite, PyQt5, Deepface
Description:
Designed a high-performance attendance system capable of recognizing multiple faces simultaneously. Utilized lightweight models for real-time face detection and spoof detection, switching to high-precision models for identity recognition. Built with scalability in mind, this system was optimized for both CCTV footage and standalone webcam usage. Includes GUI features for managing the face database and conducting live recognition.

Swift Coding Club – Tech Lead

Key Contributions:
- **SwiftUp Bootcamp:** Designed and conducted a 2-day beginner bootcamp on Swift for fellow students.
- **Swift Student Challenge Training Sessions:** Curated and taught a 10-day curriculum on SwiftUI to prepare participants for the Swift Student Challenge. Developed all course material, hosted and led the sessions independently.

MeaningBox – Swift Student Challenge 2024

Role: Solo Developer
Technologies: Swift, SwiftUI
Description:
Created a mental health and life wellness app aimed at promoting emotional reflection and meaningful living. Features include daily and life goal logging, emoji-based mood tracking, reflective prompts, and motivational tasks. Inspired by psychological research, the app encourages users to cultivate self-awareness and purpose through simple yet powerful interactions.

Sarthi – Campus Navigation App

Role: Lead Developer
Technologies: SwiftUI, Google Maps API
Description:
Built a comprehensive campus navigation tool for MIT ADT. Offers seamless outdoor navigation using Google Maps-style custom campus maps, with live text directions. Transitions automatically to indoor navigation near buildings, allowing users to select source and destination rooms within floor plans. Supports interactive zooming and dynamic room highlighting.

Learnomata – SwiftUI Educational App

Role: Solo Developer
Technologies: SwiftUI
Description:
Submitted as part of the Swift Student Challenge 2025, this educational app visualizes deterministic finite automata (DFAs) and common algorithms. Designed for interactive learning, it presents formal theory in a digestible, visual format suitable for students new to computational theory.

EduQuest – React Native Career Mentor App

Role: Frontend Developer
Technologies: React Native
Description:
Designed as a digital mentor for students, EddyQuest allows users to build a profile, take a personality-career quiz, and receive personalized guidance. The app intends to generate learning paths and provide curated study resources.

EVE – College Event Ticketing App

Role: Frontend Developer
Technologies: React Native
Description:
Modeled after platforms like BookMyShow, EVE allows students to browse and book college events, view event details, and discover events by club affiliation.