

DHILIP S

Software Engineering Student · Python Developer · Open Source Contributor

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🔗 [GitHub: github.com/dhilipmpms](https://github.com/dhilipmpms) | [Portfolio: dhilipmpms.github.io/portfolio](https://dhilipmpms.github.io/portfolio)

PROFESSIONAL SUMMARY

Third-year Integrated M.Sc. Software Engineering student with hands-on experience in Python, Django, Flutter, and Linux-based systems. Passionate about open-source software and actively involved in FOSS communities, including GNU/Linux User Groups and Software Freedom Day initiatives. Experienced in developing web and mobile applications, contributing to community-driven projects, and exploring new technologies. Strong interest in backend development, Linux, and open-source ecosystems, with a commitment to building practical, user-focused solutions and continuously expanding technical skills.

EDUCATION

Master of Science in Software Engineering (Integrated) 2023 – 2028

Annamalai University, Chidambaram, Tamil Nadu

TECHNICAL SKILLS

Languages	Python, C++ , C, Bash/Shell
Frameworks	Django, Django REST Framework, Flutter, React, Node.js
Databases	MySQL, SQLite, Firebase
OS & Linux	Ubuntu, Debian, Arch Linux, Android
Tools & DevOps	Git, GitHub Actions, Docker, Linux CLI, VS Code
Cloud	AWS , Firebase, Heroku, Self-Hosting
Other	REST APIs, FOSS Principles, Technical Writing

PROJECTS

Letterpress | Python · GTK · GNOME · Flatpak (Community-Maintained Fork)

- Currently maintaining a community fork of the abandoned upstream GNOME app that converts images into ASCII character art using the artem library.
- Implemented language (i18n) support and fixed art rendering bugs reported by the community; distributed via Flathub under GPL-3.0.
- Coordinating community contributions, translation via Weblate, and compatibility maintenance following GNOME guidelines.
- [GitHub: github.com/dhilipmpms/Letterpress](https://github.com/dhilipmpms/Letterpress)

NovaDial | Kotlin · Android · FOSS

- Developing a modern open-source Android dialer inspired by existing FOSS telephony applications.
- Working on UI modernization, privacy-focused features, and enhanced user experience.
- Exploring Android telephony APIs and Material Design principles.
- [GitHub: github.com/dhilipmpms/NovaDial](https://github.com/dhilipmpms/NovaDial)

Library Management System | Python · Django · SQLite · JavaScript

- Developed a web-based Library Management System to automate book management, student records, book issuance, returns, and inventory tracking.
- Implemented search, member management, lending workflows, and reporting features.
- Built using Django with a responsive user interface and open-source licensing.
- GitHub: github.com/dhilipmpms/Library_management_system

Data Quality Checker (GenAI) | Python · Streamlit · Pandas

- Built an AI-powered data quality analysis tool that generates natural-language reports from CSV datasets.
- Automated detection of missing values, duplicates, datatype inconsistencies, and outliers.
- GitHub: github.com/dhilipmpms/Data-Quality-Checker

SOS Alert Application | Java · Android

- Developed a privacy-focused emergency alert application for Android.
- Implemented location sharing and emergency contact notification features.
- Focused on offline-first and open-source principles.
- GitHub: github.com/dhilipmpms/SOS-alerter

IoT RFID Attendance System | Arduino · RFID · IoT

- Collaborated with GLUG members to develop an RFID-based attendance management system.
- Automated attendance tracking using RFID technology and microcontrollers.
- Worked on hardware integration, testing, and system implementation.

Attendance Management System | Django · Python · SQLite

- Created a student attendance management platform with authentication and attendance tracking.
- Designed database-driven workflows for managing student attendance records.
- Developed a clean and responsive interface for faculty and administrators.
- GitHub: github.com/dhilipmpms/Attendance_Management

C Weather | C · libcurl · raylib · OpenWeatherMap API

- Built an educational open-source graphical weather application in C using libcurl for HTTP requests and raylib for the GUI.
- Fetches real-time weather data via OpenWeatherMap API; displays temperature, humidity, and dynamic weather banners with a retro pixel-art font.
- Implemented secure HTTPS API calls, city selection via command-line, GUI error handling, and a refresh button for live updates.
- GitHub: github.com/dhilipmpms/C_Weather

Event Page | HTML · CSS · JavaScript · PHP

- Developed a responsive event landing page with booking and gallery features, backed by a PHP admin panel.
- Implemented user authentication, booking submission and export, and an admin dashboard for managing event registrations.
- Deployed as a static site via GitHub Pages; source available under open-source licensing.

- [GitHub: github.com/dhilipmpms/Event-page](https://github.com/dhilipmpms/Event-page)

OPEN SOURCE CONTRIBUTIONS

Community Activities

- Active member of Cuddalore GNU/Linux User Group (CGLUG).
 - Participant and volunteer in Software Freedom Day events.
 - FOSS enthusiast and community contributor.
 - Develop and maintain open-source projects on GitHub.
 - Collaborated with GLUG members on IoT and embedded systems projects.
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