Aditya S

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Education

Bachelor of Technology in Electronics and Communication Engineering
Mar Baselios College of Engineering and Technology, Kerala   *Expected 2025*

Experience

Lead Developer   *2021 - Present*
TeamUltroid
- Architected the fundamental structure and key modules driving the project's functionality.
- Managed GitHub repositories, code reviews, and collaborative development processes.
- Interacted with a global community to improve functionality and usability.

Tech Intern   *2024*
BreadcrumbsAI
- Developed web scraping scripts in Python, using Playwright to extract web data and BeautifulSoup for parsing.
- Implemented error handling and logging mechanisms to ensure reliable data collection.

Project Lead and Backend Developer   *2022 - 2024*
Google Developer Student Clubs, Mar Baselios College of Engineering and Technology
- Coordinated club activities.
- Developed automation scripts for various events and the backend of GDSC MBCET website.

Campus Lead   *2023 - 2024*
GTECH µLearn, Mar Baselios College of Engineering and Technology
- Managed campus-wide learning and skill development initiatives.
- Achieved 1 Million karma points in the campus.

Technical Skills

Languages: Python, JavaScript, TypeScript, C++, Kotlin, Dart, HTML, CSS, Java

Frameworks: Node.js, Deno, React, Next.js, Flutter, Jetpack Compose

Tools: Git, Android Studio, Visual Studio Code, Docker, Arduino

Achievements

Hackathon   *2024*
EDEN 3.0, MCE | Winner of EDEN 3.0 hackathon conducted by Marian Engineering College.
- Created an adaptive employee-management solution equipped with advanced tracking features, resulting in easier employee promotion calculations that dramatically reduced manual reporting efforts for human resources personnel involved daily.
- **GitHub**: github.com/xditya/EmployeeManagement | **Live URL**: emma.deno.dev

Qualifier, Top 100 Coders   *2023*
µLearn, at HuddleGlobal
Qualified for the Top 100 Coders initiative, recognized by Kerala Govt., finding the top 100 coders from the state.

GitHub   *2021*
Top GitHub public contributions in 2021 | #12 in the top public contributions list in India in 2021. | 500+ followers.

Projects

Ultroid – Telegram UserBot
- Open-source Telegram userbot framework written in Python, enabling automation and customization for a large user base, with more than 7.9k active users.
- Features a modular design with over 200 plugins for utility, moderation, and scalability.
- Actively maintained on GitHub with 2.8k+ stars, fostering collaboration and innovation.

Technologies: Python, MongoDB, SQL, Dockerfile, Shell
GitHub: github.com/TeamUltroid/Ultroid

ChannelActions – Telegram Bot
- Automated Telegram channel join requests with features like auto-approval, auto-decline, and customizable welcome messages, significantly reducing manual administrative overhead.
- Enhanced accessibility due to support for more than 25 regional languages.
- More than 1 million active users worldwide.

Technologies: TypeScript, MongoDB, Deno, I18n
GitHub: github.com/xditya/ChannelActionsBot | **Live URL:** channelactions.xditya.me

WhatsApp Utilities Bot
- Developed a WhatsApp automation bot using whatsapp-web.js that automated image-to-sticker conversions, attracting over 2.5k users in the first week prior to release.
- Integrated QR code generation for easy WhatsApp login.
- Built backend functionality with JavaScript and Node.js for efficient account utilities.

Technologies: JavaScript
GitHub: github.com/xditya/WhatsAppUtilitiesBot

Lyrics Searcher
- Developed an Android application that allows users to search for lyrics based on song titles.
- Designed a clean, user-friendly interface with Jetpack Compose and optimized performance for fast and responsive lyrics loading.

Technologies: Jetpack Compose, Kotlin, Android Studio
GitHub: github.com/xditya/LyricsSearcher

Telethon Snippets
- Developed a VSCode extension that integrates the Telethon library, providing developers with code snippets to streamline Telegram bot development.
- Published the extension on Visual Studio Marketplace and has over 5k installations.

Website: marketplace.visualstudio.com/items?itemName=xditya.telethon
GitHub: github.com/xditya/TelethonSnippets

Campus Services Management System (CSMS) - Final Project
- Designed a print automation platform where students can upload documents, monitor the status of the print queueprint queue in real time, and pay with an integrated wallet.
- Developed an automated slip and gate pass request system which supports digital approval of different forms, like pink slip, lab entry, ID replacement, with automated notifications to faculty.
- Integrated vending machine (with hardware) with QR codes for food distribution and quantity optimization to reduce waste.
- Created a multiplatform application in flutter, to improve the student experience on all the services, enhancing operational effectiveness and campus life.

Technologies: Dart, Flutter, TypeScript, Deno, JavaScript, C, ESP32, ESP32CAM, MongoDB
GitHub: github.com/xditya/CampusServicesManagementSystem

SensoryEcology - Mini Project
- Developed a sensory monitoring system using Arduino UNO and NodeMCU with various sensors to track and adjust room temperature, air quality, and gas levels.
- Implemented real-time environmental data processing and feedback mechanisms to optimize room conditions based on sensor input.
- Developed a user-friendly interface across the website and Android platforms to visualize sensor data and manage environmental parameters, improving room comfort and safety.

Technologies: C, Arduino UNO, NodeMCU, Jetpack Compose, HTML, CSS, Deno, JS
GitHub: github.com/xditya/SensoryEcology | github.com/xditya/SensoryEcologyApp |
github.com/xditya/SensoryEcologyAPI