



Vetrichelvan B

Software Engineer

Profile

Fullstack Software Engineer with 4 years of experience in Python, Flutter, React.js, and TypeScript. Engineered robust exception handling frameworks and seamlessly integrated workflows with the Airbyte API at Lyric. Expertise includes building scalable applications, CRM systems, custom workflow engines, and developing high-performance APIs. Proficient in Docker, MongoDB, Firebase, and Clickhouse, with a strong focus on system integration. Passionate about open-source contributions and mentoring, thriving on solving complex challenges and continuous learning.

Employment History

Software Engineer at Lyric, Chennai

February 2023 — July 2024

- **System Integration:** Pioneered exceptional data integration services with Airbyte, Clickhouse, and Postgres, achieving a 50% increase in data processing efficiency across platforms.
- **Exception Handling Framework:** Engineered a robust, plug-and-play exception handling framework for APIs and scripts, reducing error response times by 30% and improving user satisfaction.
- **Airbyte API Integration:** Spearheaded end-to-end workflow integration with Airbyte API, resulting in a 40% improvement in data pipeline reliability. Developed custom connectors using Airbyte CDK.
- **API Services Development:** Enhanced multiple API services, increasing overall system functionality by 25% through efficient data management and task automation.
- **Testing Strategies:** Established comprehensive unit and integration test cases for FastAPI services using pytest and unittest, leading to a 35% reduction in production bugs.
- **Code Optimization and Refactoring:** Revamped and optimized existing code bases, improving performance by 20% and maintainability.

Backend Developer at Tekion, Chennai

November 2021 — February 2023

- **Restructured AssetTracking IoT Project:** Improved performance and scalability by 40% through backend redesign using FastAPI and Python. Successfully migrated database architecture to an SQLAlchemy-based ORM system.
- **CRM API Development:** Developed a high-performance CRM API, enhancing customer data operations and system performance by 30%.

Details

Chennai, India

+918122441808

pythonhubdev@gmail.com

Links

[LinkedIn](#)

[GitHub](#)

Skills

Python

FastAPI

Flutter

MongoDB

Firebase

Airbyte

React

Typescript

HTML

CSS

Git

Data Integration

API

Code Optimisation

- **Data Migration Strategy:** Led the migration of data from MongoDB to MariaDB, increasing system reliability by 50% and user-friendliness.
- **Attendance Management App:** Innovated a camera-based attendance management app, improving attendance tracking accuracy by 25% using real-time communication via MQTT protocol.
- **Asset Management System Enhancement:** Augmented IoT asset management system features, resulting in a 20% increase in user engagement through enhanced analytics and feature sets.
- **Camera Management System:** Developed a robust camera management system, enhancing search functionality and filtering capabilities by 30%.

Frontend Developer at AssetPlus, Chennai

April 2021 — October 2021

- **Website Enhancement:** Transformed website functionality, improving user experience and reducing bounce rates by 15%. Developed an end-to-end HTML editor with Handlebar.js, React, and TypeScript.
- **Mobile Application Development:** Enhanced the AssetPlus mobile app, leading to a 20% increase in user satisfaction and engagement through new features and bug fixes.

🎓 Education

Bachelor of Technology, Sri Manakula Vinayagar Engineering College

July 2017 — July 2021

💼 Internships

Sap Technical Consultant at Kaar Technologies, Chennai

December 2020 — March 2021

- Developed web services with SAP and created APIs with Node.js, improving data interaction efficiency by 25%. Built web applications using Angular and mobile applications with Flutter.

Backend Developer at Workik, Chennai

October 2020 — January 2021

- **API Development:** Engineered a robust API with Flask and MongoDB, hosted on AWS Lambda and EC2, achieving optimal performance and scalability. Reduced API response times by 20%.
- **Custom Workflow Engine:** Designed and implemented a workflow engine using Apache Airflow, Python, and DAGs, improving task scheduling efficiency by 30%. Developed a custom DAG management API with Python, Flask, and MongoDB.