Hassan Rauf Butt

Full Stack Flutter Engineer

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Flutter & Software Engineer with 2+ years of experience in mobile app development, backend engineering, and CI/CD automation. Proficient in Flutter, FastAPI, and Git, delivering 5+ projects with a 25% load time reduction and a 40% decrease in deployment errors.

Work Experience

STUDENT ASSISTANT - BACKEND ENGINEER
Apr 2024 - Sep 2024

- Built a real-time email management system with FastAPI and MySQL, improving email retrieval speed by 30% through asynchronous synchronization and polling.
- Developed a robust backend API for a resume builder app using FastAPI, enabling secure storage and retrieval of user data in a MySQL database.
- Designed and integrated customizable resume templates, allowing dynamic generation and real-time previews of personalized layouts.
- DevOps: Dockerized applications, automated deployments, created CI/CD pipelines with GitHub Actions, and deployed a React website on AWS S3 for secure delivery.
- Technology Stack : React, FastAPI, Tailwind CSS, MySQL, imaplib, JavaScript, HTML, CSS.

Flutter DevOps Engineer
Feb 2023 - Aug 2024

Allia Health

At Allia Health, I led the development and optimization of user-centric mobile and backend solutions, integrating wearable device data, predictive analytics, and self-care tools, while automating CI/CD pipelines to improve deployment efficiency and data security.

- Revamped application design to enhance user experience, integrating features such as predictive analytics, behavioral insights tracking, and real-time health monitoring from over 300+ wearable devices.
- Owned features end-to-end, from design to implementation, ensuring seamless integration and high-quality delivery.
- Achieved a 40% reduction in development cycle time and a 30% boost in team productivity by optimizing deployment processes and improving resource utilization.
- Improved bug detection efficiency by 60% through unit and integration tests, ensuring app stability.
- Automated CI/CD pipelines using GitHub Actions, incorporating multi-environment workflows, code quality gates, and security scanning to ensure high-quality releases.
- Optimized deployment processes with Fastlane integration, enabling seamless app releases to the App Store and accelerating time-to-market.
- Technology Stack: Flutter , Dart , GitHub Actions, Fastlane, Stream Chat, Firebase , Workflows

Core Skills

Python, FastAPI, MongoDB, MySQL Docker, React, Svelt, firebase, Github Actions, NoSql, Python, TypeScript, RESTful, API Development, Asynchronous Programming, Android, Flutter, cross-platform apps

Education

Brandenburg University of Technology
Oct 2025

MASTER Artificial Intelligence

National University of Computer and Emerging Sciences
Jun 2022

BACHELORS Computer Science

INDEPENDENT PROJECTS

Allia Health   App

The Health Tracker app allows users to connect with wearable devices to monitor health metrics such as activity, heart rate, and sleep. It features real-time notifications, secure chat with clinicians, and data syncing across devices. The app ensures a seamless and secure health management experience with features like image uploads and personalized alerts.

Digi-Diary

The Digital Diary app is a secure personal journal with features like text, audio, and media uploads. It has strong security and customization options. Ads support the app, and it offers real-time sync, cloud storage, and efficient media handling.

FamPlan Plus   App

The Household Management app lets parents create and manage profiles for family members. It includes a Task Manager for assigning chores, a Meal Planner for collaborative meal scheduling, and a Townhall chat for family communication. Local notifications keep users informed, while a meal reputation system highlights popular meals based on likes and dislikes.

Social Chirp   App

Social Chirp is a dynamic app designed for influencers and brands to boost their social media impact. It offers a Collaboration Hub, allowing brands to post jobs and invite influencers for partnerships. Graphical insights provide users with clear visualizations of follower growth, engagement peaks, and social media performance. The app features a user-friendly interface for in-depth analytics and collaboration management, focusing on enhancing social media presence through real-time insights and seamless partnerships.

Nuri Scanner

Nuri is an innovative app that allows users to scan QR codes to quickly retrieve detailed product information. Built with Flutter and Stacked state management, the app ensures efficient data handling and a seamless user experience. In addition to product information, Nuri suggests personalized recommendations based on users' health profiles, enhancing its utility for health-conscious consumers. Features like secure authentication, image uploads, and cloud storage integrate smoothly to create a comprehensive and user-friendly platform.