

SAMEER HASSAN

SOFTWARE ENGINEER

DETAILS

Address

House #31, Sahibzada Abdul Qayyum Road,
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GitHub

github.com/sameer-hassan01

Portfolio

sameer-hassan01.github.io

SKILLS

C++

Qt Development

DBMS / SQL

HTML / CSS / JavaScript

Flutter / Dart

Node.js / Express

Python

React

AWS Cloud

Figma

TOOLS

Git

Postgres

Firebase

Cloudinary

Vite

Tailwind

Jest

Riverpod

Linux

LANGUAGES

English — Fluent

Urdu — Native

PROFILE

Software engineering student with hands-on full-stack experience shipping real products end-to-end. Built and launched **Hisaab (Qeemat App)** — a Flutter + Node.js + PostgreSQL personal finance app for Pakistan — from architecture to deployment on free-tier infrastructure. Previously developed and shipped the **FoodBook** MVP at Binary Rewind. Comfortable across mobile, backend, and web; strong fundamentals in C++, DBMS, and Python; ongoing BSCS coursework focused on machine learning and data science.

EXPERIENCE

Software Developer — Binary Rewind

Islamabad

May 2025 — Aug 2025

- Shipped the MVP of **FoodBook**, a community-driven food review platform, owning core features: user reviews, ratings, and search.
- Built RESTful APIs and front-end components against designer/PM specs; wrote unit tests to improve reliability.
- Optimized performance, fixed critical beta bugs, and supported deployment and CI to accelerate releases.

PROJECTS

Hisaab / Qeemat App — Personal Finance & Receipt Manager

Solo

2026

github.com/sameer-hassan01/QEEMAT

Flutter · Node.js · Express · PostgreSQL · Firebase · React

- Designed and built a full-stack, offline-first personal finance app for Pakistani users: receipt scanning (on-device OCR via Google ML Kit), expense & income tracking, budgets, subscriptions, grocery price comparison, and a rewards system.
- Architected three coordinated codebases solo: **Flutter mobile** (Riverpod, GoRouter, Dio, Hive offline cache), **Node.js + Express** REST API with Postgres (raw SQL via *pg*), and a **React + Vite + Tailwind** admin panel.
- Integrated Firebase Authentication (email, Google, phone OTP) with JWT-backed API sessions; signed Cloudinary uploads so clients never see the master secret; secured every route with Helmet, rate-limiting, and express-validator.
- Deployed entirely on free tiers: Render (API), Neon (Postgres), Cloudinary (images), Vercel (admin), Firebase (auth + push). Zero monthly cost.
- Implemented offline support via Hive cache + background sync queue, and a rule-based local insights engine (no paid LLM calls).

University Group Projects — Bahria University

2023 — Present

- Contributed to multiple coursework projects across Data Structures, OOP, Database Systems, and Machine Learning — including an intrusion-detection system project and capstone-style data-science notebooks.
- Worked in small student teams using Git for version control, dividing scope across UI, data, and logic layers.

EDUCATION

BS Computer Science — Bahria University

Islamabad

Aug 2023 — Present

Specialization in machine learning and data science. Relevant coursework: Machine Learning, Deep Learning, Data Mining, Probability & Statistics, Data Structures & Algorithms, Database Systems. Built end-to-end ML pipelines in Python (pandas, NumPy, scikit-learn) with feature engineering, cross-validation, and hyperparameter tuning.

A Levels — ICAS

Islamabad

Aug 2021 — Jun 2023

Mathematics, Physics, and Computer Science. Capstone: a dynamic web application built with JavaScript and Flask.

O Levels — Fazaia Education System School

Jun 2020 — Jun 2021

Grade A in Computer Science. Foundational programming and problem-solving with hands-on projects in Python and basic web development.