

Aqif Ahmed

Lahore, Pakistan | [Email](#) | [Portfolio](#) | [LinkedIn](#) | [GitHub](#)

EDUCATION

Bachelor of Science in Software Engineering — University of Central Punjab (UCP), Lahore
2023 – Present (Semester 6)

TECHNICAL SKILLS

Languages: Python, Java, JavaScript

Frameworks & Libraries: React Native, FastAPI, Expo

Databases: PostgreSQL

Tools & Platforms: Git, GitHub, Docker, AsyncStorage

Core Concepts: Data Structures & Algorithms, Object-Oriented Programming, REST APIs, State Management

PROJECTS

Net Zero — Expense Tracker App | *React Native, Expo, JavaScript* [RepoLink](#)

- Built a cross-platform mobile expense tracker using React Native and Expo (SDK 54) with full offline capability
- Implemented global state management via React Context and useReducer, eliminating prop drilling across all screens
- Integrated AsyncStorage for persistent local data storage — expenses and selected month survive app restarts
- Developed a Summary screen featuring a pie chart (react-native-chart-kit) with per-category breakdowns and percentages
- Built reusable components (ExpenseCard, ExpenseModal) with form validation, date picker, and category selector chips
- Applied dark-themed UI with a consistent design system defined in a central theme constants file

GitHub Search Engine | *FastAPI, PostgreSQL, Docker, NLTK*

- Containerized a FastAPI-based search engine using Docker Compose for reproducible, environment-agnostic deployment
 - Implemented BM25-based retrieval with text preprocessing (tokenization, stop-word removal) via NLTK for ranked results
 - Engineered a GitHub repository crawling pipeline with ranking algorithms to surface the most relevant repositories
 - Persisted indexed documents in PostgreSQL with an optimized schema for efficient full-text query lookups
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RELEVANT COURSEWORK

Data Structures & Algorithms | Object-Oriented Programming | Computer Communication Networks | Software Construction & Design | Applied Machine Learning | Advanced Web Programming | Operating Systems | Formal Methods in Software Engineering
