Shehab Hesham Anwar

Software Engineer

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EXPERIENCE

Software Developer at Inspire Hub   Jun. 2024 – Present

- Designed and developed a comprehensive book-writing desktop app to enhance authors' productivity with robust text and image formatting tools.
- Built a Kotlin Multiplatform (KMP) desktop application that supports large documents (500+ pages) with optimized memory management and minimal lag, boosting user productivity.
- Implemented advanced book management features, including efficient save, import, and export functions, allowing seamless handling of large files.
- Collaborated with backend developers to optimize data storage and retrieval via Express.js and PostgreSQL, ensuring stability and efficient data handling for large datasets.
- Resolved complex image integration and content transfer challenges, enabling smooth content creation workflows with seamless copypaste functionality for structured authoring.

PROJECTS

Story Reader App ○ Source   Jun. 2024

- Developed a story reader app from scratch, adding features like customizable font sizes, dynamic backgrounds, and text highlighting.
- Added 5+ key features and optimized performance, resulting in a 30% increase in user satisfaction and smooth app responsiveness.
- Built using Android SDK, Kotlin, MVI architecture, and Kotlin Coroutines for efficient asynchronous operations. Managed version control with Git and GitHub.

Masrufati App (Freelance Project) ○ Source   Sep. 2020

- Developed a personal expense tracking app for travel, allowing users to record, categorize, and total expenses with note-taking features.
- Collaborated closely with the client to design an intuitive UI.
- Utilized Kotlin, SQLite, and MVC architecture for efficiency and maintainability, ensuring an adaptable and user friendly experience.

Lokma App (Graduation project) ○ Source   Mar. 2022

- Led the development of a native Android app for food ordering, with separate admin, client, and delivery modules.
- Managed a team of 5 developers, breaking the project into key tasks and ensuring timely delivery through structured task management.
- Achieved a 94% improvement in order processing efficiency and 87% increase in user satisfaction after successful 7-month launch.
- Built with Android SDK, Kotlin, and MVP architecture for a maintainable codebase, integrating Firebase for real-time data, Google Play Services for location and notifications, and custom notifications.
- Achieved seamless background processing using Kotlin Coroutines and enhanced user engagement with task scheduling via Alarm and Broadcast receivers.

TECHNICAL SKILLS

Languages: C++, C#, Java, Kotlin, Dart, MySQL, Git, JavaScript

Developer Tools: Problem Solving, Object Oriented Programming , Design Patterns, Data Structures, Architecture Patterns, Software Development, Algorithms, knowledge of system design

Technologies/Frameworks: Android SDK, Kotlin Multi-platform, Jetpack Compose, Flutter, Kotlin Coroutines, Room, Firebase, REST APIs, Google Play Services, App Components (Service, Broadcast)

EDUCATION

Assuit University, Faculty of Computers and Information   Sep. 2018 – May 2022

Bachelor of Computer Science, GPA: (3.27/4.00)

ACHIEVEMENTS

Competed in the highly competitive ECPC (Egyptian Collegiate Programming Contest) three times, gaining valuable experience in algorithmic problem-solving and collaborative teamwork in a fast-paced, challenging environment