

Zain ul Abdin

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EDUCATION

Bachelor of Science (Computer Science)

Jan 2007 – Dec 2010

(CGPA: 3.02/4)

University of Sindh, Jamshoro, Pakistan

Project Title: Inventory Management System

EXPERIENCE

Android Developer | Bank Alfalah, Pakistan

May 2022 – Present

- **Developed and Designed:** Created and designed Android applications, ensuring a user-friendly interface and robust functionality.
- **Feature Implementation:** Played a key role in implementing new features and incorporating changes based on evolving requirements, enhancing the banking app's functionality.
- **Security Enhancement:** Prioritized security, diligently ensuring compliance with industry standards, and enhancing the app's resilience against potential threats.
- **Cross-Functional Collaboration:** Collaborated with cross-functional teams to analyze, design, and ship new features, working with various APIs and data sources.
- **Performance Optimization:** Continuously evaluated and implemented new technologies to maximize application performance.
- **Operational Practicality:** Determined operational practicality by writing and implementing clean, efficient code based on specifications.
- **Ongoing Support:** Provided ongoing support to ensure the seamless functioning of the banking app, addressing issues and implementing updates as needed.

Visiting Faculty | IT Square Institute of Science and Technology

May 2022 – Dec 2023

- **Subjects Taught:** .NET (C#, ASP.NET, WinForms, WCF, Windows Store Apps), Data Structures, Introduction to Computers.
- **Student Supervision:** Supervised students in semester and Final year projects, providing guidance and support to ensure successful project completion.
- **Affiliation:** Worked in association with Sindh Technical Education and Vocational Training Authority (STEVTA).

Software Developer | PPHI, Pakistan

Nov 2016 – May 2022

- **End-to-End Development:** Took charge of end-to-end development for a mobile application, singlehandedly crafting the entire frontend using Android Studio.

- **API Integration:** Ensured seamless API integrations, facilitating smooth communication between the app and backend systems.
- **Researching and Designing:** Researched, designed, implemented, and managed software programs, focusing on functionality and user experience.
- **Collaborative Design:** Worked with co-developers to design algorithms and flowcharts, collaborating closely with other developers, UX designers, business, and system analysts.
- **Program Modifications:** Identified areas for modification in existing programs and subsequently developed these modifications to enhance performance and functionality.
- **Operational Practicality:** Determined operational practicality by writing and implementing clean, efficient code based on specifications.
- **Maintenance and Upgrading:** Maintained, troubleshooted, debugged, and upgraded existing software/systems to ensure optimal performance.
- **Software Integration:** Integrated software components and third-party programs, enhancing the application's capabilities.
- **Quality Assurance:** Embraced the latest design principles, conducting meticulous testing and debugging to ensure the app's robustness and delivering a high-quality product aligned with project goals.

Senior Faculty (Computer Science) | APTECH Computer Education

Jan 2012 – Nov 2016

- **Teaching Expertise:** Taught software engineering courses, including Web-designing, .NET (C#, ASP.NET, WinForms, WCF, Windows Store App), Java, Android, PHP, SQLite, MySQL, and SQL-Server.
- **Student Supervision:** Supervised students in online E-Projects, providing guidance and support to ensure successful project completion.
- **Workshops and Seminars:** Conducted workshops, seminars, and teacher training sessions, enhancing both student and faculty knowledge and skills.
- **Curriculum Development:** Played a key role in developing and updating curriculum content to keep up with the latest industry trends and technologies.
- **Mentorship:** Provided mentorship and academic support to students, fostering their growth and understanding in various software engineering domains.
- **Collaborative Initiatives:** Collaborated with colleagues to organize and lead educational events that contributed to the professional development of both students and faculty members.

PROJECTS

Alfa App

Worked on various sub-projects within a major commercial banking application, with a focus on enhancing user experience and expanding functionality. The Alfa app enables users to manage their finances seamlessly, track expenses, pay bills, schedule branch appointments, request a new cheque book, and shop online, ensuring that all banking needs are efficiently handled.

Key sub-projects included:

- **School Fees Payments:** Streamlined the process for paying school fees directly through the app.
- **SBS School Fees Payments:** Integrated a specialized system for managing school fees under the SBS framework.
- **User Activity:** Developed features to track and analyze user activities within the app, providing valuable insights and enhancing user engagement.
- **Manage Relationship:** Implemented tools for managing customer relationships, improving communication and service delivery.

- **Account Maintenance Certificate:** Automated the generation of account maintenance certificates, simplifying account management for users.

Play store Link:

<https://play.google.com/store/apps/details?id=com.base.bankalfalah&hl=en&pli=1>

AgentPay, Agent App

Contributed to various sub-projects within a large commercial banking application, focusing on expanding service offerings and improving functionality. Through **AlfaPay**, Bank Alfalah agents are empowered to offer essential banking services to their communities, helping members manage their finances and daily needs more effectively.

Key sub-projects included:

- **Debit Card Issuance:** Facilitated seamless debit card issuance through the app.
- **Bank of Punjab Integration:** Managed the integration with Bank of Punjab, covering registration, cash withdrawal, and POOL services.
- **MTR (Money Transfer Receive):** Enabled efficient money transfer receipt through the app.
- **MTS (Money Transfer Send):** Developed functionality for secure and swift money transfers.
- **Cash-In and Cash-Out:** Streamlined cash-in and cash-out processes for enhanced user convenience.
- **Utility Bill Payment and Bulk Bill Payment:** Integrated utility bill payment and bulk bill payment features, simplifying bill management for users.
- **BISP (Benazir Income Support Program):** Supported the integration and processing of BISP transactions.
- **BISP for BOP:** Extended BISP services specifically for Bank of Punjab users.

Play store Link:

<https://play.google.com/store/apps/details?id=com.bankalfalah.alfapay&hl=en>

Dashboard in BI tool Grafana

Designed a comprehensive visualization and analytics platform to provide management with actionable insights for decision-making. This system integrates data from various modules of the organization, aiding in strategic decision-making and operational efficiency.

Key features include:

- **HR Status:** Real-time tracking of human resources metrics.
- **Financial Status:** Overview of financial performance and key indicators.
- **Automated Alerts:** Notifications via SMS and email for important updates.
- **Vehicle Monitoring:** Real-time tracking of vehicle locations using map tracking.
- **Temperature Monitoring:** Visualization of temperature data for medical warehouses using various charts.
- **Daily Attendance:** Tracking and reporting of daily attendance status.
- **POL Consumption:** Monitoring and reporting of POL (Petroleum, Oil, and Lubricants) consumption.
- **Field Monitors Status:** Tracking the status of field monitoring equipment and operations.

Monitoring of Monitors (MOM)

Created an application featuring a questionnaire designed to facilitate the monitoring of health facility visits. Monitors are assigned monthly visit targets to assess various hospital indicators and improve overall health service quality. The application supports the tracking and evaluation of these visits to ensure effective health facility monitoring and service enhancement.

EPI-MIS Android App and Dashboard

The application was developed to collect immunization data by Union Council for children and women of childbearing age. This app streamlines the immunization process and supports efficient data collection and management.

Key functionalities include:

- **Automated Scheduling:** Provides automated schedules for vaccinators, including timelines for vaccinating children under 24 months and women of childbearing age.
- **Defaulter List:** Generates lists of individuals who missed their scheduled vaccinations.
- **Daily Vaccine Summary:** Offers daily summaries of vaccine administration.
- **Decision-Making Dashboard:** Delivers a comprehensive dashboard for management to make informed decisions based on the collected data.

TCP Monitoring Checklist App

The aim of this project is to monitor the Trading Corporation of Pakistan using various performance indicators.

Household Survey

The primary objective of developing this app was to collect baseline household data for the research team. This data serves as a foundation for further health data collection efforts aimed at improving overall household health.

ACADEMIC PROJECTS

Semi Supervised Expert System for Medical Diagnosis

The system is designed to provide a comprehensive and accurate representation of a patient's condition at all times. It offers a digital record that can be shared seamlessly across various healthcare settings. This system enables the complete patient history to be accessed without the need to retrieve previous physical medical records. It ensures data accuracy, appropriateness, and legibility while reducing the risk of data duplication through a single, continuously updated file. Additionally, it eliminates the issue of lost forms or paperwork, ensuring that patient information is always current and readily available.

Inventory Management System

Developed an Inventory Management System designed to efficiently manage and track inventory details. The system includes features for stock maintenance, real-time inventory updates based on sales data, and the generation of daily or weekly sales and inventory reports. It addresses key issues in direct sales and purchase management, offering a comprehensive solution for inventory control. The project utilized WinForms, C#, and SQL Server Database to deliver a robust and effective management tool.

TRAININGS, INTERNSHIP & CERTIFICATIONS

Training

T1. Mobile Application Development

Jan 2024 – July 2024

XLoop Digital Services

Design thinking and Figma, JavaScript, Typescript, React Native, Project Management, Python.

T2. ASP.NET

June 2011 – Sept 2011

Hidaya Institute of Science and Technology

HTML, CSS, JavaScript, JQuery, Ajax, C#, Asp.net, Web services, SQL-Server

Project: Admin Dashboard

T3. PHP

June 2012 – Sept 2012

Hidaya Institute of Science and Technology

HTML, CSS, JavaScript, JQuery, Ajax, PHP

Project: Online Testing System

Certification

- Aptech Certified Trainer MS Office
- Aptech Certified Trainer XML
- Aptech Certified Trainer Advance Data Access in .Net

SKILLS

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- **Computer Programming:** Kotlin, Android, Coroutines, Flows, Retrofit, Dagger Hilt, MVP, MVVM, LiveData, GLIDE, ROOM, Rest APIs integration, Socket IO, Java, Java Swing, C#, Asp.Net Web-forms, MVC, Web-services, Web-APIs, Winforms, WPF, LINQ to SQL, Entity Framework, PHP, HTML, CSS, Bootstrap, JQuery, Python
 - **Database:** MySQL, SQL-server, SQLite
 - **Tools:** Visual Studio, Android Studio, IntelliJ, VS Code

ACHIEVEMENTS AND GRANTS

Laptop – From Prime Minister Laptop Schema on Merit Bases

Grants

- Fee Reimbursement from Government of Pakistan
- Stipend during ASP.Net and PHP Training at Hidaya Institute of Science and Technology – Merit Scholarship (1st to Final year) from University of Sindh, Pakistan

WORKSHOPS

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- Conducted a 15-days Asp.NET training session of Junior Faculty, organized by Aptech Computer Education, Pakistan
 - Conducted a workshop on Android, organized by Aptech Computer Education, Pakistan
 - Conducted a workshop on SQL-Server database, organized by Aptech Computer Education, Pakistan • Conducted a workshop on Web-Designing, organized by Aptech Computer Education, Pakistan.
 - Conducted teacher training workshop on Mobile development, organized by Aptech Computer Education, Pakistan

REFERENCES

Mobile Development Lead Shahjahan Samo

Dept. Digital Banking

Bank Alfalah, Pakistan samoon.shahjahan@gmail.com

Manager IT Ali Muhammad Nizamani

Dept. IT

PPHI SINDH, Pakistan

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