

Project Portfolio

1. R&D on NASDAQ ITCH and FIX Protocol Integration (EcoSoftBD)

Duration: Nov 2021 - Jun 2023

- Led research and development to establish communication with NASDAQ FIX and ITCH servers (DES, Bangladesh) using FIX and ITCH protocol in a C# environment.
 - Explored low-latency financial data exchange and order execution mechanisms.
 - Skills: Git, NASDAQ
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2. NTMC Vehicle Tracking System (TigerIT Bangladesh LTD.)

Duration: Sep 2021 - Feb 2023

- Developed a system for vehicle identification and detailed reporting for all vehicles entering through NTMC gates.
 - Utilized Java, Spring Boot, and Apache Kafka for real-time processing and reporting.
 - Skills: Linux, JPA, Oracle SQL, Git, Design Patterns, Java, Hibernate, Spring Boot, Apache Kafka
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3. R&D on Payment System Integration with CommChat (TigerIT Bangladesh LTD.)

Duration: Sep 2021 - Dec 2021

- Conducted R&D to integrate third-party wallet and banking systems with the CommChat app.
 - Leveraged GoLang, gRPC, Python, and Blockchain for secure and scalable payments.
 - Skills: Linux, Git, Design Patterns, Java, Hibernate, Go, Back-End Web Development
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4. Web-based Banking System for MBL Rainbow (Kona Software Lab Ltd.)

Duration: Nov 2020 - May 2021

- Built a secure web banking application for MBL Rainbow with session management, secure transactions, account management, and reporting.
 - Technologies: Spring Boot, ReactJS, Oracle SQL, Kafka.
 - Skills: Linux, JPA, Oracle SQL, OWSAP ZAP, Git, Design Patterns, Java, React, Hibernate, Spring Boot, Apache Kafka
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5. Winning Combination & Ticket Validation for LaoToTo (Kona Software Lab Ltd.)

Duration: Sep 2019 - Mar 2020

- Developed algorithms to calculate winning combinations, validate tickets, and manage prize distributions for LaoToTo lottery.
 - Skills: JPA, Oracle SQL, Git, Design Patterns, Angular, Java, Hibernate, Spring Boot, Apache Kafka
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6. Feature Development and Bug Fixing in IdeaScale Web Application (IdeaScale Ltd)

Duration: Jan 2016 - Aug 2019

- Enhanced idea/plan submission and evaluation features for a collaborative platform serving enterprises and public organizations.
 - Managed Java, Spring web/mobile application for multiple vendors and public groups.
 - Skills: MySQL, Linux, Servlets, JPA, OWSAP ZAP, Git, Design Patterns, Angular, Burp, Java, Vagrant, Elasticsearch, Spring
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7. Therap Platform Modules (Therap Services, LLC)

- Therap Custom Form Template (Jan 2008 - Dec 2015):** Developed user-configurable document modules using Spring Web Flow, Java, Hibernate, Oracle SQL, JSP.
 - Therap ISP Program (Apr 2008 - Dec 2015):** Implemented individualized care service planning modules, verified by state authorities.
 - Therap Individual Service Plan (Feb 2009 - Dec 2015):** Built provider and state-level service plan tools for developmental disability cases.
 - Therap Personal Finance Module (Mar 2009 - Dec 2015):** Created account management for individual expenditure tracking.
 - Therap Case Management System for States (Jan 2010 - Aug 2014):** Led QA for North Dakota state implementation of Therap system.
 - Therap CCD Implementation for HL7 (Jan 2010 - Jun 2010):** Developed clinical data sharing features for authorized medical personnel.
 - Therap Medication History (Sep 2009 - Nov 2009):** Built module for managing individual medication instructions.
 - Therap Global Template Library (Oct 2008 - Nov 2008):** Created export/import library for plan documents.
 - Skills: Java, Spring, Hibernate, Oracle SQL, JSP, Linux, Git, Design Patterns
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8. Early Projects (IICT, BUET, Dhaka)

- DESCO Data Acquisition (Nov 2006 - Jun 2007):** Developed systems for real-time data collection and monitoring from utility service stations.
- DESCO PMIS (Sep 2006 - Jun 2007):** Implemented documentation and task management for DESCO's shared infrastructure.
- BUET Central Database Project (Aug 2006 - May 2007):** Built internal administrative and academic management systems.
- Skills: Java, Oracle SQL, MySQL, C#, Struts, JSP, Tomcat