

ABDUR REHMAN

Full-Stack Developer | MIS & Production Planning (PPC) Specialist

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PROFESSIONAL SUMMARY

Computer Science graduate and full-stack developer who designed, built and now operates the production MIS platform that runs a working textile processing factory. Holds a dual role at Fine Star Processing Unit, planning the daily production program as Assistant PPC Officer while owning the software and the daily floor status reporting that captures it as MIS & Data Reporting Officer. Combines hands-on React, Node.js and MySQL engineering with production planning, stage-wise work-in-progress reporting and advanced Excel analysis. Also developed an AI machine-safety system using Python, OpenCV and YOLOv8. Seeking a role where software engineering and manufacturing data expertise are applied together.

TECHNICAL SKILLS

- Programming Languages:** JavaScript (ES6+), Python, SQL, C++, HTML5, CSS3
- Front-End Development:** React 19, React Router, Vite, Responsive Web Design, Component Architecture, Code Splitting, Mobile-First UI
- Back-End Development:** Node.js, Express.js, RESTful API Design, Session-Based Authentication, bcrypt Password Hashing, Role-Based Access Control
- Databases:** MySQL, Microsoft Access, Firebase, MongoDB, Relational Schema Design, Query Optimisation, Data Migration, Backup & Recovery (mysqldump)
- Data Analysis & Reporting:** Microsoft Excel (Advanced: Pivot Tables, XLOOKUP/VLOOKUP, Power Query, Conditional Formatting), SheetJS, MIS Dashboards, Automated Report Scheduling, KPI Tracking
- AI & Computer Vision:** OpenCV, YOLOv8, Real-Time Object Detection, Video Stream Processing, Automated Safety Interlocks
- Production Planning (PPC):** Production Program Planning, Daily Floor Status Reporting, Work-in-Progress (WIP) Tracking, Stage-wise Production Monitoring, Lot & Batch Traceability, Dispatch Planning, Capacity Utilisation Reporting
- Tools & Platforms:** Git, GitHub, VS Code, Postman, PowerShell, Windows Task Scheduler, node-cron, Nodemailer/SMTP, rclone
- IT & Systems Support:** Systems Troubleshooting, Network Security Fundamentals, User Access Administration, Audit Logging, Microsoft Office Suite

PROFESSIONAL EXPERIENCE

Assistant PPC Officer | MIS & Data Reporting Officer January 2026 - Present
Fine Star Processing Unit

- Plan and maintain the factory production program across the Greige, Printing, Dyeing, Post-Process and Dispatch departments, sequencing lots against machine capacity and customer delivery dates.
- Prepare and issue the daily floor status reports the factory runs on: a lot-by-lot work-in-progress position showing where every volume stands in the processing route, with quantity totals by stage and an overall floor total.
- Track work-in-progress stage by stage through printing, ageing, washing, finishing, calendaring and packing, updating each lot as it moves so the floor position reported to management is accurate the same day.
- Consolidate daily production, rejection and dispatch figures from every department into a single management view.
- Designed, developed and independently maintain the factory-wide MIS platform now used for all production data capture, replacing spreadsheet and legacy Access-based tracking.
- Migrated years of historical production records from a legacy Microsoft Access database to MySQL, removing single-user file-locking limits and enabling concurrent entry from every department.
- Automated twice-daily production reporting by scheduled email, eliminating manual end-of-shift report compilation and giving management same-day and settled-figure views.
- Implemented a column-level audit trail recording who changed each value and when, providing a definitive record for disputed production quantities.
- Administer user accounts and access rights across 20+ production floor roles and 7 departments, including credential security and per-screen authorisation.
- Build and analyse operational Excel workbooks, including salary and production sheets, using pivot tables, lookup functions and Power Query.

- Completed intensive full-stack web development training covering front-end fundamentals, responsive UI design and back-end integration.
- Built and deployed practice applications applying modern JavaScript, component-based UI and database-backed workflows.

KEY PROJECTS

Fine Star Factory MIS - Full-Stack Production Management System2026

Technologies: React 19, Vite, Node.js, Express, MySQL, SheetJS

- Architected and delivered a 41,000+ line production management system covering the complete mill workflow, from greige fabric receipt through printing, dyeing and post-processing to packing and customer dispatch.
- Designed a normalised 79-table MySQL schema providing lot-level traceability across every production stage, with 45 operational screens grouped into 8 departmental modules.
- Developed a REST API of 31 route modules on Node.js and Express, handling production entry, lot transfers, gate passes, rejection tracking, dispatch and management reporting.
- Built the React front end with per-screen dynamic imports, cutting the initial bundle down from a single 1,092 kB chunk, plus reusable data-table and report components, a command palette and tablet-optimised layouts for use on the production floor.
- Built the printed daily floor status reports the factory issues from the system: stage-wise work-in-progress grouped by process stage with section and grand totals, generated from live production data and auto-fitted to a single printed sheet.
- Secured the system with bcrypt-hashed credentials, session management and granular role-based permissions spanning 20+ production floor roles.
- Engineered operational resilience: non-blocking audit logging, node-cron scheduled email reporting, and verified nightly mysqldump backups compressed and uploaded off-site to Google Drive with 30-day retention.
- Wrote scripted Access-to-MySQL migration tooling to move legacy factory data without loss of history.

AI Machine-Safety Surveillance System

Technologies: Python, OpenCV, YOLOv8

- Built a real-time computer-vision system that monitors live camera feeds and detects human presence inside machine danger zones.
- Programmed automatic machine shutdown on intrusion detection, converting a passive camera feed into an active safety interlock.
- Tuned YOLOv8 detection logic and thresholds to reduce false positives under variable factory lighting conditions.

LinguaLearn Master - Multilingual Learning Application (Final Year Project)2024

Technologies: Firebase, JavaScript

- Developed a language-learning application supporting English, Urdu and Arabic, including right-to-left layout handling for Arabic content.
- Integrated Firebase for real-time data synchronisation and cloud persistence of user progress across devices.
- Owned the complete UI/UX design, implementation, testing and debugging cycle.

EDUCATION

BS Computer Science2020 - 2024

Government College University, Faisalabad | CGPA: 3.29 / 4.00

Intermediate (ICS)2018 - 2020

Superior College, Shahkot | 870 / 1100 (79%)

Matriculation (Science)2016 - 2018

Government High School No. 1, Shahkot | 909 / 1100 (83%)

LANGUAGES

English - Professional working proficiency | Urdu - Native | Arabic - Basic