

# MUHAMMAD AMMAD

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## SOFTWARE ENGINEER

 [linkedin.com/in/ammad-mughal/](https://linkedin.com/in/ammad-mughal/)

Experienced **Web Developer** with over 4 years of expertise in building scalable, responsive, and secure web applications. Proficient in **React.js**, **Flask**, and **ASP.NET** for front-end and back-end development. Skilled in **RESTful API development**, database integration, and system architecture design. Adept at creating user-friendly interfaces, optimizing performance, and implementing robust security measures. Passionate about leveraging modern web technologies to deliver efficient and innovative solutions.

## TECHNICAL SKILLS

- **Front-End Development:** React.js, Redux, Tailwind, SCSS, Material UI, JavaScript (ES6+)
- **Back-End Development:** Flask, ASP.net, RESTful APIs, GraphQL
- **Databases:** PostgreSQL, SQL Server, Stored Procedures, Scalar Functions
- **Web Security:** JWT Auth, SQL Injection Prevention, reCAPTCHA, API Rate Limiting
- **Tools & Platforms:** Git, Docker, Jira

## WORK EXPERIENCE

### FRONT-END DEVELOPER

#### BROADPEAK TECHNOLOGIES

April 2025 - May 2025

- Joined Naranga to revamp its franchise platform; **initiated migration** from **monolith to microservices** and built a **modern UI** using **React**, **Redux**, and **Tailwind CSS**.
- Worked with **DevOps and backend teams** to ensure **smooth integration** of new front-end with microservices.
- Planned full-scale rollout and UX enhancements, but efforts paused as Lahore branch was shut down within a month.

### FRONT-END DEVELOPER

#### ENERGY AND SECURITY GROUP (LLC)

November 2022 - December 2024

- Developed **e-Operations**, a **role-based** indigenous **CRM** portal utilising **React.js**, **Redux**, **SCSS** and **Material UI** at front-end and **ASP.net MVC WebAPI** and **MSSQL Server** at the backend having 2 major modules:
  - **Commercial Operations:**
    - Digitized consumer services to enable a paperless workflow.
    - Implemented Activity Log for tracking application steps and time spent.
    - Integrated with legacy billing systems to reduce human error and speed up processing.
    - Developed E-File and barcode search for one-click access to application data.
  - **Technical Operations:**
    - Built a live interface using **Google Maps API** and GeoJSON (KMZ) for real-time complaint tracking.
    - Displayed feeder statuses, transformer data, and geo-tagged complaints.
    - Improved field operations via a **live monitoring dashboard**.
- Used **Redux**, **Lazy Loading**, **Throttling**, **Debouncing** for performance optimization.
- Secured app with **JWT auth**, **SQL injection prevention**, custom **CAPTCHA**, and **rate limiting**.
- Trained 300+ field staff on using the portal.
- Contributed to Backend APIs development in using **ASP.net MVC WebAPI**, **MSSQL Server** using **database first** approach and deployment on on-premises infrastructure.

## SOFTWARE ENGINEER

## POWER INFORMATION TECHNOLOGY COMPANY

March 2020 - October 2022

- Developed a **Store Inventory System (SIS)** with a secure **JWT-based REST API** backend using **Flask** and a responsive frontend using **Bootstrap**.
- Re-engineered **IBS** and **Power ERP**, designing **BPMN** and **UML diagrams**, database dictionaries, and system architecture documentation.
- Conducted **CNIC data analysis** using **SQL Server** and **Power Pivot** in Microsoft Excel.
- Deployed self-hosted web solutions, including **Power Meetings**, **Power Chat**, **GitLab Server**, and **Help Desk** on **Ubuntu** and **CentOS**.

## SOFTWARE ENGINEER

## CYBERSEEDS

December 2021 - February 2022

- Gathered requirements and created **Software Requirements Specifications (SRS)** for the **Pakistan Construction Network (PCN)** project.
- Modeled and documented **BPMN workflows**, **UML diagrams**, and software architecture for web-based systems.

## KEY PROJECTS

- **e-Operations Portal:** Developed a role-based enterprise portal with React.js and Flask, integrating Google Maps API for real-time monitoring.
- **Store Inventory System (SIS):** Built a secure inventory management system with a Flask backend and Bootstrap frontend.
- **Citizen Monitor Portal:** Created a web portal for real-time data visualization and reporting to combat electricity theft.
- **MEPCO Smart Mobile App:** Contributed to a cross-platform mobile application using React Native.
- **Sabri Project Management:** Developed a web portal for clients, projects and deliverables management digitalising the companies processes.

## EDUCATIONAL HISTORY

### BACHELOR IN COMPUTER SCIENCE

3.08 CGPA

### GCU, LAHORE

October 2015 - December 2019

### INTERMEDIATE (PRE-ENGINEERING)

77% Marks

### GCU, LAHORE

March 2012 - May 2014

### MATRICULATION (SCIENCE)

78% Marks

### GCMS, LAHORE

January 2010 - February 2012

## CERTIFICATIONS

### ARTIFICIAL INTELLIGENCE & COMPUTING (AIC)

### PIAIC

March 2024

### GOOGLE FOUNDATION OF PROJECT MANAGEMENT

### COURSERA

May 2022

### IBM BLOCKCHAIN ESSENTIALS

### IBM DEVELOPER SKILLS NETWORK

June 2021

### OVERVIEW OF DATACENTER PHYSICAL INFRASTRUCTURE

### SCHNEIDER ELECTRIC

October 2021

### DEVELOPING ASP.NET MVC WEB APPS

### MICROTECHX

November 2017