MUHAMMAD AMMAD

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SOFTWARE ENGINEER

<u>linkedin.com/in/ammad-mughal/</u>

Full-Stack Developer with 4+ years of experience building scalable, responsive, and secure web applications. Proficient in Next.js, React, TypeScript, Python, and Flask. Skilled in RESTful API development, database integration, and system architecture.

Experienced in **integrating Al-powered features** using **OpenAl APIs** and machine learning models to enhance user experience and automate workflows. Passionate about delivering modern, high-impact solutions by combining web technologies and Al.

WORK EXPERIENCE -

FRONT-END DEVELOPER

BROADPEAK TECHNOLOGIES

April 2025 - May 2025

- Joined Naranga to modernize its franchise platform, initiating migration from *monolith* to *microservices*.
- Built a modern UI using React, Redux Toolkit, and Tailwind CSS.
- Collaborated with DevOps and backend teams for seamless front-end *integration* with *RESTFul APIs*.
- Planned a full-scale rollout with UX improvements, but project was paused due to closure of the Lahore branch within a month.

FRONT-END DEVELOPER

ENERGY AND SECURITY GROUP (LLC)

November 2022 - March 2025

- Developed a *role-based CRM* portal utilising *React, Redux Toolkit, SCSS* and *Material UI* having features:
 - Digitized manual consumer services, reducing process time from months to hours.
 - Implemented paperless workflows, helping cut national carbon emissions.
 - Added an Activity Log to track application stages, time spent, and staff KPls.
 - Integrated with legacy billing systems to reduce errors and speed up processing.
 - Built an E-File system with *barcode search* for one-click access to consumer records.
 - Developed a real-time complaint tracking interface with Google Maps API and KMZ layers.
 - Displayed live feeder statuses, transformer data, and geo-tagged complaints on an interactive map.
 - Created a monitoring dashboard to boost field team responsiveness.
 - Used *lazy loading, throttling, debouncing,* and *Redux Toolkit* for performance optimization.
 - Secured the app with JWT auth, SQL injection protection, CAPTCHA, and rate limiting.
 - Trained 300+ field staff to ensure successful portal adoption.
 - Created comprehensive technical documentation for the portal using JSDoc, streamlining support and simplifying maintenance.

SOFTWARE ENGINEER

POWER INFORMATION TECHNOLOGY COMPANY

March 2020 - October 2022

- Developed a Store Inventory System (SIS) with a secure *JWT-based REST API (Flask)* and responsive *Jinja2* frontend.
- Re-engineered IBS and Power ERP, creating *BPMN/UML* diagrams, *database dictionaries*, and *architecture documentation*.
- Performed CNIC data analysis using SQL Server and Power Pivot in Excel.
- Deployed self-hosted web solutions (Power Meetings, Power Chat, GitLab Server, Help Desk) on Ubuntu and CentOS.

EDUCATIONAL HISTORY -

BACHELOR IN COMPUTER SCIENCE 3.08 CGPA INTERMEDIATE (PRE-ENGINEERING) 77% Marks MATRICULATION (SCIENCE) 78% Marks GCU, LAHORE
October 2015 - December 2019
GCU, LAHORE
March 2012 - May 2014

GCMS, LAHORE January 2010 - February 2012

TECHNICAL SKILLS -

- Front-End: React, Redux, Tailwind, SCSS, Material UI, TypeScript, JavaScript
- Back-End: Next.js, Python, Flask, RESTful APIs, Web-Sockets
- Databases: PostgreSQL, SQL Server, Mongodb, Supabase
- Web Security: JWT Auth, Next-Auth, reCAPTCHA, API Rate Limiting
- Tools & Platforms: Github, Docker, Jira, Slack

KEY PROJECTS -

- <u>Crappo:</u> A responsive cryptocurrency website built with *Next.js, Redux Toolkit* and *Tailwind CSS* featuring a modern landing page, with user authentication using *Next-Auth*, newsletter subscription utilizing *MongoDB*, and smooth animations using *Framer Motion*.
- <u>SPM</u>: An indigenous, role based project management portal developed for a digital advertisement company utilizing *Flask, SQLAlchemy, Marshmallow* and *Postgresql* at the backend and *React, Tailwind CSS* and *Redux Toolkit* on front-end.
- <u>e-Operations</u>: The e-Operations web portal, a component of the Power Sector Improvement Activities (PSIA), served as a role-based interface for field operations developed using *React*, *Redux Toolkit*, *SCSS and Material UI*.
- <u>Kippax</u>: Developed a sleek, modern, and responsive website for a dynamic marketing agency. Built using *React, Tailwind CSS* and *Framer Motion* and *Loveable AI*, the site reflects the agency's creative brand with a bold, clean design and smooth user experience.
- <u>Codiniti:</u> An interactive website for a tech startup, showcasing company's profile in a visually appealing manner. Utilizing React, *Tailwind, Lattefiles* for animations and *Framer Motion* for smooth transitions, the website offered an engaging user experience.
- <u>Store Inventory System (SIS):</u> Web app built with *Flask, Python, JavaScript* and *Jinja2*, supporting full process of a standard inventory management business flow along with CRUD for items, categories, and suppliers, hierarchical stores.
- <u>Chatiniti:</u> A full-featured real-time chat application using *Flask, Flask-SocketIO,* and *PostgreSQL*. Chatiniti supports one-to-one and group chat, along with audio/video calls using WebRTC.
- <u>MEPCO Smart Web Portal</u>: Mepco Smart is a web portal developed as part of the Power Sector Improvement Activities (PSIA) using *React, SCSS* and *Material UI* for 33 million power consumers across Pakistan.

CERTIFICATIONS -

<u>Microsoft Certified - Azure Fundamentals</u>

Microsoft

<u>Artificial Intelligence & Computing (AIC)</u>

PIAIC

Foundation of Project Management

Google - Coursera

Project Initiation - Starting a Successful Project

Google - Coursera

IBM Blockchain Essentials

IBM Developer Skills Network

IBM BLOCKCHAIN DEVELOPER

IBM Developer Skills Network

Overview of Datacenter Physical Infrastructure

Schneider Electric