ASAD E BUKHARI

AI ENGINEER | FULL STACK DEVELOPER

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PROFESSIONAL SUMMARY

Full Stack Developer and AI Engineer with hands-on experience building scalable web applications, AI-powered solutions, and intelligent systems. Proficient in React.js, Next.js, TypeScript, Node.js, Python, FastAPI, and database technologies, with practical experience integrating Generative AI and LLMs using Google Gemini, LLaMA, and Ollama. Skilled in designing intuitive UI/UX, developing secure APIs and scalable architectures, and building end-to-end applications that combine modern software engineering with AI capabilities. Experienced in NLP, AI-driven recommendations, database design, frontend-backend integration, and AI-assisted development workflows using tools such as Claude Code and GitHub Copilot.

EDUCATION

B.Sc. Software Engineering | Bahria School of Engineering & Applied Sciences Sep 22 – Jun 26
CGPA: 3.2/4.00

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, PHP, Java, C#, SQL, HTML5, CSS3
- **Frameworks & Libraries:** React, React Native, Next.js, Node.js, Express.js, .NET, Tailwind CSS, Bootstrap CSS
- **Databases:** SQL Server (MSSQL), MySQL, Oracle, MongoDB (NoSQL)
- **Tools & Platforms:** VS Code, IntelliJ, Docker, Git/GitHub, Expo, Postman, P6 Primavera
- **Specialties:** Full-Stack Development, Database Design, UI/UX, QA, Team Leadership, Planning

PROFESSIONAL EXPERIENCE

Lyraset | Senior Web Developer July 26 - Present

- Rebuilt and launched the agency site on Next.js, MongoDB Atlas, Cloudinary, and Vercel with a full admin CMS for non-technical content and media editing.
- Delivered client websites across travel, real estate, e-commerce, and immigration verticals, each with a custom admin dashboard and WhatsApp-integrated lead capture.
- Engineered decoupled frontend/backend systems (Next.js with Django REST Framework or API routes) covering auth, CRUD, inventory, and order management.
- Implemented on-page SEO across client sites, including keyword-targeted copy, schema markup, sitemaps, and metadata structure.

Ardent Thrive | WebDev & Digital Marketing Specialist - QA, Team Lead, & Content Creator March 24 - Present

- Developed, deployed, and hosted a MERN website with a complete admin dashboard similar to wordpress.
- Enhanced website authority and search engine rankings through strategic link-building.
- Conducted detailed backlink audits, verifying relevance and authority against SEO best practices.
- Trained and managed a team of 3 interns, assigning specific websites for off-page SEO initiatives.
- Monitored individual and team performance, ensuring adherence to project requirements and quality standards.
- Developed digital content and oversaw social media account management.

NEPRA (National Electricity and Power Regulatory Authority) | Full Stack Developer Intern Sep 25 - Feb 26

- Collaborated with a team of interns to build a Leave & Attendance Management System using TypeScript, Tailwind CSS, Node.js, and Express.js, adopted for internal HR operations.
- Architected and optimized a Microsoft SQL Server database with normalized schemas, indexes, triggers, and stored procedures for employee records, attendance, and role-based access control.
- Built secure RESTful APIs with JWT authentication, engineering end-to-end leave-approval and attendance-tracking workflows.
- Developed a responsive intranet interface and performed testing, debugging, and QA using Git/GitHub and Postman in an agile team environment.

PMAS Arid Agriculture University | Full Stack Developer Intern Jul 25- Sep 25

- Developed and enhanced a dynamic web application using PHP, HTML5, CSS3, and JavaScript, contributing to the university website redesign with a focus on seamless frontend-backend integration.
- Designed and implemented responsive user interfaces and GUI enhancements, improving usability, accessibility, and overall user experience across devices.
- Built modular, reusable components and structured content architecture, improving code maintainability and reducing page-load times.
- Integrated Oracle database operations with PHP to handle dynamic content, CRUD operations, and data-driven pages.

LEADERSHIP & EXTRACURRICULARS

Athletics: Captain of Department Futsal Team; Goalkeeper, University Futsal Team; Captain of school football championship-winning team.

Event Coordination: Logistics Lead for Aurex'26 and MLSA BSEAS Society; Logistics Coordinator for CCode'23 and BUMUN'25. Member of University Media, Sports, E-Sports, and Music Clubs.

Public Speaking: Active debater skilled at articulating complex ideas to diverse audiences.

KEY PROJECTS

VidAI — AI-Powered Wedding Planning Platform (React, React Native, Node.js, FastAPI, MongoDB, Gemini API, Ollama)

- Architected a full-stack, three-tier platform (React + Vite web, React Native + Expo mobile, Python FastAPI AI microservice) connecting couples with vendors, using a microservices pattern for independent scaling.
- Built a RESTful API with Node.js/Express and MongoDB (Mongoose/Atlas), with schemas for users, vendors, bookings, reviews, and AI conversations.
- Engineered secure JWT authentication (refresh-token rotation, bcrypt hashing) and role-based access control for customer, vendor, and admin roles via server-side middleware.
- Integrated dual AI systems via a Python FastAPI microservice: Google Gemini Flash API for the conversational chatbot and image generation, and a locally-hosted LLaMA 3.2 (Ollama) model powering the vendor recommendation engine and budget planning.

Shani Travels — Vehicle Rental (Next.js, TypeScript, Tailwind CSS, Framer Motion, Swiper.js, Google Maps API, Cloudinary)

- Architected a seven-route Next.js App Router application in TypeScript, with server components for static content, isolated client components for interactive views, and a shared component library for fleet and package rendering.
- Built a full admin CMS with authenticated routes and protected API endpoints, exposing CRUD operations over fleet vehicles, service packages, pricing, gallery media, and booking records.
- Defined typed MongoDB/Mongoose schemas and shared interfaces across API routes and UI components, with Cloudinary-backed image upload, transformation, and delivery from the dashboard.
- Engineered a multi-step booking flow with type-safe form state and validation, persisting submissions to the database and serializing lead payloads into encoded WhatsApp Business deep links.
- Developed a tokenized Tailwind CSS design system with Framer Motion scroll animations, intersection-observer counters, and Swiper.js carousels.
- Optimized performance via Next.js image optimization, code splitting, lazy-loaded media, and route-level caching.

Veritas AI — Fake News Detection (Python, Streamlit, scikit-learn, NLTK, Plotly, FPDF)

- Built an end-to-end NLP classification pipeline in Python, training a TF-IDF (unigram+bigram, 50K-feature) + Logistic Regression model on ~45,000 labeled articles to classify news as real or fake at 94.5% accuracy.
- Developed an interactive Streamlit dashboard with real-time inference, TextBlob sentiment analysis, Plotly/Seaborn visualizations (confidence gauges, confusion matrices, word clouds), and on-demand PDF report generation (custom FPDF subclass), backed by a joblib-serialized model layer decoupled from the UI.

FAEDED — Desktop Music Player (Java, JavaFX, JFoenix, SQLite, Maven)

- Built a JavaFX desktop music player using the MVC pattern, with JFoenix for Material Design UI and SQLite for persistent song library storage
- Implemented core playback (play/pause/seek/shuffle/repeat/volume) via JavaFX MediaPlayer, with automatic metadata/album-art extraction
- Designed a searchable library drawer with custom list-cell rendering and a frameless, custom-styled UI

Tetris — Desktop App (C#, .NET Framework, Windows Forms, GDI+)

- Built a fully playable Tetris clone in C#/WinForms with piece movement, rotation, hold/swap, drop scoring, line-clear detection, and progressive difficulty
- Designed a layered architecture separating game state, board/collision logic, and UI rendering, using an event-driven pattern to keep the UI in sync
- Implemented custom binary file persistence for dual leaderboards (high scores and survival time) with custom ranking/sorting logic
- Rendered the game board and pieces via GDI+ with embedded bitmap resources for tiles and overlays

FASAD — E-Commerce Web Application (PHP, MySQL, JavaScript/jQuery, AJAX, XAMPP)

- Built a full-stack e-commerce site with product catalog, cart, checkout, and order processing on a normalized MySQL schema
- Implemented AJAX-driven storefront (filtering, dynamic product loading, cart updates) for a responsive, no-reload UX
- Built a separate admin dashboard for product/user/order management with sales analytics and activity logging
- Implemented session-based authentication and a multi-table checkout flow persisting orders and line items