

Zawar Khan

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WORK EXPERIENCE

[Exarta Labs](#) | Associate Software Engineer

(Jul 2024 – Current)

- **Engineered** dynamic data dashboards using Python (Streamlit), HTML, and CSS, boosting analysis speed by 30% and enabling real-time insights for multiple teams.
- **Developed** an AI-driven event navigation system with React and Canvas, cutting user confusion reports by 45% and reducing wayfinding time by 35%.
- **Created** a lightweight Shopify app using Vanilla JavaScript, accelerating video marketing content generation by 60% and improving ecommerce conversion rates.
- **Spearheaded** a secure 3D marketplace platform with Express.js, React, and PostgreSQL, lowering transaction latency by 25% and enabling real-time 3D asset previews.
- **Pioneered** an immersive social-media interface with React, PlayCanvas, and WebRTC, elevating user engagement by 40% through interactive 3D posts and voice/video conferencing.

Technologies: (MongoDb, React Js, Express Js, Python, Vanilla Js, 3Js, Play Canvas, Postgresql)

[Seller Cloud Asia](#) | Trainee .NET Core Developer

(Feb 2024 – June 2024)

- Created, queried, and optimized SQL databases, ensuring efficient data storage and retrieval for application scalability
- Streamlined web applications using C# and .NET Core MVC, streamlining backend logic and improving code maintainability
- Incorporated React for responsive UI features, enhancing user experience with interactive, responsive front-end components

Technologies: (Sql, React, C#, .NET Core)

[Exarta Labs](#) | Internee AI Engineer

(June 2023 – Sept 2023)

- Spearheaded development for the “Stride” e-commerce application, integrating voice interaction AI bots for an immersive user shopping experience
- Trained conversational flows using YAML files on the RASA platform, enhancing AI-user communication with generative capabilities
- Built NLP and voice recognition scripts, allowing real-time assistance and automated responses within the app
- Leveraged Spacy for entity recognition, enabling the AI to understand and respond to user context with greater precision
- Extended the AI pipeline with custom components, strengthening the overall voice-driven e-commerce experience

Technologies: (RASA Platform, React, Redis, MongoDB, JS)

PROJECTS

Next-Generation Social Media Platform – ([Pods 3D](#))

- Leading the development of a 3D-enabled social media platform, where each post occupies a customizable 3D space
- Harnessing the PlayCanvas engine for real-time, in-browser 3D rendering, ensuring smooth user interactions and visuals
- Employing React to structure the core user interface, blending modern web components with immersive 3D environments
- Integrating rich media support including images, videos, music, and YouTube embeds directly into 3D spaces for dynamic, interactive posts.
- Adding 3D-styled social links and animated assets, allowing users to personalize their virtual environments with branded icons, models, and interactive effects.
- Incorporating WebRTC for real-time voice/video conferencing, allowing users to interact within the virtual spaces
- Coordinating backend API integration for data synchronization, user management, and seamless content sharing across multiple pods

Technologies: (React, PlayCanvas, WebRTC, Express, Redis database, Vanilla Js)

Multiplayer Virtual Event Space – ([Live Event](#))

- Designed interactive avatars and movement controls, letting attendees walk, explore, and interact with one another inside the space.
- Integrated fun social interactions such as emotes, gestures, and mini-games to enhance engagement and community bonding.
- Supported custom stages and event setups, enabling hosts to present talks, display media, and run collaborative activities.
- Provided scalable backend synchronization with Redis and APIs to handle multiple concurrent users smoothly.

Technologies: (React, PlayCanvas, WebRTC, Express, Redis database, Peerjs)

Haryali Event Market Navigation

- Designed a custom event-navigation solution with React to deliver a modern, responsive user interface
- Utilized HTML Canvas to render maps, stalls, and user paths, enabling smooth, visually engaging navigation
- Integrated AI-driven voice guidance powered by voice recognition libraries, allowing attendees to effortlessly locate stalls from their current position
- Incorporated real-time data updates and event-specific configurations, offering a personalized experience for diverse market scenarios

Technologies: (React, Canvas, AI Voice interaction)

Zeniva AI App on Shopify ([Zeniva AI](#))

- Prepared a Shopify application—Zeniva AI—that enables store owners to generate marketing videos by simply entering text
- Used Vanilla JavaScript to maintain a lightweight, fast-loading frontend suitable for a variety of store themes
- Built robust functions to handle video-generation logic, ensuring quick conversions and minimal delays for end users
- Established best practices for Shopify app development, including secure authentication and scalable architecture

Technologies: (Vanilla Js, Liquid HTML, CSS)

Digital Bazaar ([The Digital Bazaar](#))

- Designed and implemented the Express.js backend to handle APIs, user authentication, and data processing, facilitating seamless communication between server and client
- Composed a React frontend featuring custom components and interactive elements for an intuitive customer journey
- Utilized PostgreSQL for robust and scalable data management, optimizing queries for efficient handling of marketplace transactions
- Incorporated Three.js to render 3D product assets, creating an immersive shopping experience
- Established encryption strategies and security protocols to protect proprietary 3D files and user data

Technologies: (Express.js, React, PostgreSQL, 3D Asset Security, AI integrations)

Exarta Dashboard for Insights

- Built a dashboard using Python Streamlit for streamlined data visualization, including interactive charts and real-time analytics
- Customized the interface with HTML and CSS, ensuring a responsive and professional layout tailored to specific business requirements
- Applied modular code structures in Python to handle data ingestion, transformation, and display, enabling quick updates and maintaining clarity in large datasets

Technologies: (Python, Streamlit, CSS, HTML)

CORE SKILLS

Programming Languages: Python, JavaScript, C#, Sql
Developer Tools: Git, GitHub, AWS, Docker, VS Code, Postman
Frameworks: React, Streamlit, Node.js, Express.js, Next.js, PlayCanvas
Databases: PostgreSQL, MySQL, MongoDB, Redis

TRAINING & CERTIFICATIONS

AWS Introductory Course (May, 2024)

EDUCATION

FAST-NUCES
Bachelors, Computer Science (Completion Year 2024)

GCU LAHORE
FSc, Pre-Engineering (Completion Year 2020)