Waleed Shoaib

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EXPERIENCE

- **Objex**   Islamabad, PK
  Software Engineer   *March 2023 - Present*
    * Developing a social media platform called Rabbito, working on various microservices in Google Cloud Platform (GCP).
    * Creating new UI designs using Tailwind CSS, Next.js, and React.js.
    * Building scalable and efficient GraphQL APIs to support the frontend.
    * Implementing and integrating third-party APIs, including Facebook Graph API, ActivityPub server, and TikTok API.
    * Collaborating with cross-functional teams using Jira and Slack to manage project workflows and communications.
    * Ensuring optimal performance and security of the web application through effective use of Node.js, TypeScript, and microservices architecture.

- **Eastlancer**   Islamabad, PK
  Backend Developer   *March 2023 - Feburary 2024*
    * Developed scalable backend APIs using Node.js and Express.js, powering core application features.
    * Integrated Cloudinary for efficient image storage and manipulation within Node.js applications.
    * Implemented real-time communication features using socket programming (e.g., Socket.IO) to enhance user interactions and data updates.
    * Built a visual search engine by extracting features using a pretrained MobileNet model and integrating them into a Node.js-powered search system.
    * Designed and implemented RESTful APIs adhering to best practices for data exchange between frontend and backend.
    * Optimized Node.js application performance through profiling, load balancing, and caching strategies.
    * Collaborated with frontend developers to build dynamic React components, ensuring seamless integration with the Node.js backend.

EDUCATION

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  COMSATS Institute of Information and Technology   Wah Cantt, Taxila, Punjab
  Bachelor's of Science in Computer Science; CGPA: 3.30   *Sep. 2020 – Present*

PROJECTS

- **Bajwa Furniture (E-commerce MERN stack)**: Developed a full-stack e-commerce website using React, Node.js, Express.js, and MongoDB. Implemented features including:
    * **Real-time updates:** Integrated socket programming for features like inventory updates or live chat.
    * **Visual Search:** Created a visual search function allowing users to search for furniture using images.
    * **Recommendation System:** Built a recommendation system to suggest relevant products to customers.
- **Art Gallery Management (Laravel)**: Developed a backend system using Laravel to manage artwork inventory, artist details, and exhibition scheduling. Included features like:
    * **Authentication and Authorization:** Secure user management and role-based permissions.
    * **Inventory Tracking:** Comprehensive artwork management with image uploads and metadata storage.
- **Petrol Management System (Python/SQL)**: Created a system to track fuel inventory, sales, and generate reports. Technologies used include Python and a SQL database. Key features:
    * **Data Management:** Efficient storage and retrieval of fuel transaction data.
    * **Reporting:** Generation of customizable reports on fuel usage and sales trends.

PROGRAMMING SKILLS

- **Languages**: Python, C++, Java, SQL, JavaScript, PHP, TypeScript
- **Technologies**: ● Express ● React ● Tailwind CSS ● Next.js ● Node.js ● pandas ● Bootstrap ● Material UI ● Laravel ● Jira ● Slack ● Google Cloud Platform ● Microservices