UMAR SAEED CHEEMA

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EXPERIENCE

Headstarter AI Summer Fellowship　　　　　　　　　　　July 2024 - Sept 2024
AI Software Engineer　　　　　　　　　　　　　　　　　　　　*Remote, USA*
- Developed AI-powered full-stack applications, integrating **LLMs** to automate complex tasks and enhance platform capabilities across various domains.
- Utilized **Node.js**, **NestJS**, **React.js**, **Next.js**, and **LLMs** for backend and frontend development, optimizing model performance and reducing response times by 20%.

DGlobal　　　　　　　　　　　　　　　　　　　　　　June 2023 - May 2024
FullStack Software Engineer I　　　　　　　　　　　　　　*Remote, Singapore*
- Developed internal tools for a digital banking application using **NestJS** and **ReactJs**, ensuring smooth interactions between various banking services.
- Built a **Retry Service** for **HTTP** and **gRPC** with **exponential backoff**, enhancing reliability under high load.
- Implemented **WebSockets** with **Pulsar** for real-time notifications, reducing message delivery latency in a scalable architecture.
- Collaborated with the product team on **high-fidelity** designs in Figma, and used **Ant Design** to create visually appealing, intuitive user interfaces.

⧉**Open Data Pakistan**　　　　　　　　　　　　　　　　June 2023 - May 2024
Software Engineer　　　　　　　　　　　　　　　　　　　　*Lahore, Pakistan*
- Led the development of the HEC-funded Open Data Pakistan project on **CKAN**, growing datasets from 200 to 1000, providing critical open data access to researchers across Pakistan.
- Customized the **CKAN platform** with **Python** and **Jinja2**, integrating **data harvesting** for dataset sharing.
- Resolved performance issues to support increased load from 200 to 1000 datasets, ensuring scalability and platform stability.

PROJECTS

KonsaCourse | *React, Express, Node, MongoDB, MaterialUI, Tailwind CSS, Git*　　　Github
- A platform for LUMS students to rate professors and courses, helping future students make informed decisions.
- Designed and implemented **RESTful APIs** with **Node.js** and **Express**, optimizing API responses and reducing page load times by 30%.

Interview Deck | *React, NextJS, MUI, Stripe, Clerk, Groq, LLama3-8b, Git, Github, Vercel*　　Github | Website
- Built a platform for preparing technical interviews using AI-powered flashcards, achieving 25+ active users and improving interview readiness.
- Developed with **Next.js** and **MUI**, leveraging **Groq API** and **LLama3-8b** to generate flashcards based on job descriptions, reducing prep time.

Sequence Game | *React, WebSockets, Git*　　　　　　　　　　　　　　　　Github
- **Implemented real-time multiplayer functionality** using **WebSockets**, ensuring seamless turn-based interactions with an event-driven architecture.
- Used **React state management** to track player actions and update the game board dynamically, ensuring smooth gameplay and quick state transitions.

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, Go, C/C++, SQL, HTML,CSS
Frameworks/Libraries: ReactJs, NextJS, Node.js, NestJS, Redux, GraphQL, Keycloak, Pulsar, Docker, TypeORM
Databases: PostgreSQL, MongoDB, Firebase, DynamoDB
Technologies & Tools: AWS, Vercel, Jest, React Testing Library, Git, Google Analytics, Firestore

EDUCATION

Lahore University of Management Sciences (LUMS)　　　　　Aug 2019 – May 2023
Bachelor of Science in Computer Science　　　　　　　　　　　*Lahore, Pakistan*
Coursework: Data Structures, Algorithms, Software Engineering, OOP, Databases, HCI, Computer Vision