SANWAL KHAN

FULL STACK DEVELOPER

+92331-0064533 | **linkedin.com/in/thissanwal/** | thissanwalkhan@gmail.com | **github.com/sanwalkhan**

SUMMARY

Hello, I'm Sanwal, a passionate Backend Engineer and Full-Stack Developer with nearly 2 years of experience. Specialized in backend development using the MERN stack, SQL, and NoSQL databases, with expertise in designing scalable architectures, integrating RESTful and GraphQL APIs, and efficiently handling and analyzing data to generate actionable insights. Experienced in backend development . Adept at working across Web2 and Web3 environments, I deliver high-quality backend solutions and look forward to contributing to innovative, forward-thinking projects as part of a collaborative team.

PROFESSIONAL SKILLS

- **Languages:** TypeScript, JavaScript, Python
- **Web Development:** Node.js, Nest.js, Express.js, React.js, Next.js, REST API, GraphQL, React/Redux Toolkit, Zustand, Web Hooks, Socket.io
- **Testing & QA:** Chai, Mocha, Jest
- **Database Management:** PostgreSQL, Redis, MongoDB (NoSQL), MY SQL, Firebase
- **Message Queues**: RabbitMQ
- **DevOps & Deployment:** Docker, CI/CD using GitHub Actions, AWS EC2 | S3
- **Development Tools:** Linux/WSL, Git, GitHub
- **Work Environment:** Agile Scrum Development
- **Soft Skills:** Communication, Quick Learner, Multitasking, Open Source Solution Utilization, Problem Solver

EDUCATION

- **BACHELOR OF SCIENCE IN COMPUTER SCIENCE (BSCS)**

Relevant Courses: Data Structures & Algorithms, Databases, Concurrency, Discrete Math, Computer Architecture

WORK EXPERIENCE

SOFTWARE ENGINEER   (Sept 2024 - Present)

Enexxus - Remote

- Built Scalable Full-Stack Applications: Leveraged the MERN stack (MongoDB, Express.js, React.js, Node.js) to deliver robust and high-performance web solutions.
- Integrated HubSpot, SAP, and GraphQL APIs: Streamlined workflows and optimized data access with seamless CRM and API integrations.
- Designed Dynamic User Interfaces: Created highly responsive frontend applications using Next.js, enhancing user experience and engagement.
- Optimized Database Management: Utilized PostgreSQL and MongoDB to ensure efficient, scalable, and reliable data storage solutions.
- Developed Personalized Recommendation Systems: Boosted user engagement by 40% through machine learning-driven content suggestions tailored to user behavior.

BACKEND DEVELOPER   (May 2024 - Present))

MyProAppz - Onsite

- Realtime Chat Application: Developed a scalable realtime chat app using Nest.JS, GraphQL APIs, and Socket.io, with Firebase for data management and Stripe for payment processing.
- Social Login Integration: Implemented OAuth and Webhooks for seamless social logins via Google, Twitch, Twitter, and Discord, enhancing user authentication.
- Event-Driven Backend Architecture: Built a robust backend with Nest.JS and GraphQL, employing event-driven design to efficiently manage point calculations and weekly challenges.
- Data Insights Systems: Deployed solutions for daily and weekly statistics generation using PostgreSQL, Redis, and Firebase, providing actionable insights to improve user engagement.
- Documentation and Testing: Authored comprehensive documentation and implemented unit tests with Jest and Chai, ensuring robust, reliable, and maintainable codebases.

ASSOCIATE SOFTWARE ENGINEER   (March 2023 - April 2024)

Netixsol Pvt Limited - Onsite

- Engineered indexing and query optimizations on 2.5 TB of data, achieving a 75% reduction in response times and boosting database efficiency. Utilized PostgreSQL, Redis, and NoSQL databases.
- Oversaw data collection, transformation, and cleaning, enhancing analytics precision and reporting. Tools used include SQL, NoSQL, and Swagger APIs.
- Created comprehensive Swagger APIs for dashboards, improving front-end integration and development workflows. Integrated APIs with React.js, Node.js, and Next.js.
- Implemented CPU scheduling and cron jobs with RabbitMQ, increasing job processing efficiency by 50%.
- Applied caching techniques to cut data retrieval times from hours to minutes, utilizing Redis for caching.
- Designed a microservices architecture and led Dockerization of services, with CI/CD workflows using GitHub Actions to streamline deployment and maintain consistency.

FRONTEND DEVELOPER

Technupur - Onsite   (MARCH 2022 - SEPT 2022))

- Dynamic UI Development: Created interactive and responsive user interfaces using React and JavaScript, enhancing user engagement and experience.
- Efficient DOM Manipulation: Leveraged jQuery for seamless DOM manipulation and dynamic content updates, ensuring fast and smooth interactions.
- Component-Based Architecture: Designed reusable React components to streamline development workflows and maintain consistency across applications.

PROJECTS

blokkPlay.com

Engineered an in-game platform for reward tokens and analytics with Overwolf, to boost player engagement and track performance.
Tech-stack: Next.JS | Hapi.JS | PostgreSQL | Namecheap hosting | Nignx

Plutonians

Over headed an in-game platform for receiving game calls via secure webhooks and generating user tokens based actions
Tech-stack: Node.js | MongoDB | Nest.js | Swagger API

Web3Indexer Marketplace

Developed a dynamic Ethereum NFT marketplace with an advanced indexer for token management, order placement, and sales.
Tech-stack: React.JS | Hapi.JS | PostgreSQL | Redis | Namecheap hosting | Nignx | React/Redux Toolkit

Connecto

Built a real-time chat app using advanced technologies for seamless messaging, notifications, and enhanced user engagement.
Tech-stack: React.JS | Express.JS | MongoDB | Firebase | Socket.io

TRAINING AND CERTIFICATIONS

- Full Stack Developer Codecademy 2023
- MERN Stack Developer Gamica Cloud 2022

FUTURE ASPIRATIONS

I am focusing on advancing my expertise in Generative AI to enhance data and database engineering capabilities. My goal is to integrate cutting-edge AI techniques for improved data management and security, leveraging decentralization to ensure robust and scalable solutions.