Muhammad Zafar

Software Engineer

📞 **+92 3114519122**   ✉️ **zafarr.pk@gmail.com**   ⊙ **@mzafarr**   🌐 **Portfolio**   in **linkedin.com/zafarr**

EXPERIENCE

Full Stack Engineering Intern | Byte (YC S20)   *Sep 2023 – Nov 2023*

- Collaborated with the team in creation of Byte's Recipe Management System, including development of frontend and backend, testing and adding features later on.
- Actively participated in enhancing the backend infrastructure of the Kitchen Display System, making incremental changes, both projects use technologies like Next.js, Nest.js, PostgreSQL, and TypeORM.

Freelance Software Developer   *Aug 2023 – Present*

- Developed an ID card generator website, employing Flask for backend and Pillow for image processing.
- Successfully delivered a portfolio website created in React.js and integrated a custom AI chatbot in it.
- Developed an AI content generation tool which allows input of various parameters, including topic, keywords, content style, and level of creativity, enabling it to generate tailored content with precision.

PROJECTS

Password Manager | *MongoDB, React, Express, Node.js, TypeScript, Tailwind* | Link

- Implemented encryption techniques to ensure the safe storage and transmission of user passwords.
- Implemented user authentication using JSON Web Tokens (JWT) for secure login and access control.
- Developed RESTful API to enable features such as creating, reading, updating, and deleting passwords.

Ecommerce Store (in progress) | *Next.js, TypeScript, PostgreSQL, Tailwind* | Link

- Redux for state management, Stripe integration for payments, and a robust database for product storage.
- Implemented account creation and authentication to personalize experiences and secure transactions.
- Implemented advanced searching and sorting functionality, optimizing product discovery and navigation.

Chat Application | Next.js, *TypeScript, Firebase* | Link

- It leverages the power of server-side rendering for enhanced performance and user experience.
- Integrated Firebase Authentication for secure user registration, login, and authentication.

EDUCATION

Bachelor's in Computer Science   *Lahore, PK*

Courses: Data Structures & Algorithms, Databases, Assembly language

SKILLS

- **Languages:** TypeScript, JavaScript, Python, MySQL, MongoDB, PostgreSQL
- **Frameworks:** Next.js, Nest.js, React, Node.js, Express, Flask, Tailwind
- **Others:** Git, Docker, Postman, TypeORM, Mongoose, Jira, HTML/CSS

CERTIFICATIONS

- **AWS Cloud Concepts** - *DataCamp*
- **JavaScript Algorithms and Data Structures** - *freeCodeCamp*