TAIMOOR ANWAR

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PROFILE — Committed Full stack developer dedicated to delivering excellence and fostering collaboration. Skilled software engineer proficient in **Java, C++, Python, C,** and **JavaScript,** with strong **data structures** and **algorithms.** Skilled in **MERN stack development (MongoDB, Express.js, React.js, Node.js)** . Demonstrated hands-on experience in developing websites and problem-solving.

TECHNICAL COMPETENCIES

Full Stack Developer**(MERN):**(Mongodb-React-Node), **Artificial Intelligence** (Numpy - Pandas, Simpy), UI/UX Designer **(Figma)**, **OS** (Linux - Windows), **DevOps** - Docker Containerization - Kubernetes - Web Development -Computer Networks.

PROJECTS

Freelancer Platform (MERN Stack):   **FAST, Nuces 10/2023**

*Freelancer Platform (MERN Stack): Led development of a **web-based** platform using the **MERN (MongoDB, Express.js, React.js, Node.js)** stack to connect freelancers and clients, manage projects, and ensure secure payments.*

⌂ Backend Repository ⌂ Frontend Repository

- Built backend with **Node.js, Express.js, MongoDB.**
- Developed frontend with **React.js, Bootstrap**, Material UI.
- Integrated **Stripe API** for payments.
- Implemented authentication and authorization.
- Created project update notifications.
- Enabled project assignment, profiles, real-time chat.
- Developed marketplace with transaction history.
- Designed user dashboards and profiles.
- Deployed on **Netlify** and **Railway**.
- Tested APIs with Postman.
- Structured **MongoDB database.**

Blogging Platform(MERN Stack):   **FAST, Nuces 08/2023**

• *Blogging Platform: Led the development of a comprehensive blogging platform with a fully functional frontend and backend, designed for seamless content creation, management, and distribution.*

⌂ Frontend Repository ⌂ Backend and API Repository API Documentation

- Developed backend with **Node.js, Express.js, MongoDB**.
- Created dynamic frontend with **HTML, CSS, JavaScript.**
- Implemented and tested **RESTful APIs** with Postman.
- **Published API** documentation on Postman.
- Enabled user authentication, post management, commenting.
- Utilized **MongoDB** for **data storage** and **retrieval**.
- Applied best practices in database design.

DevOps-CI/CD   **FAST, Nuces 04/2024**

*CI/CD Pipeline Automation: Implemented **CI/CD** automation with GitHub Actions for code quality, continuous integration, and streamlined deployment.*

⌂ Project Repository

- Set up **GitHub Actions** for continuous integration, running tests, and linting on each push.
- Developed secure deployment pipeline with stages for build, test.
- Created **scheduled** tasks for maintenance.
- Implemented automated dependency updates with Dependabot.
- Designed a code review workflow with automated checks and security scans.
- Automated documentation deployment to GitHub Pages.
- Developed custom workflows for release notes and performance metrics analysis.

DevOps-Kubernetes   **FAST, Nuces 04/2024**

*Kubernetes Deployment and Management: Led multi-episode application deployment on **Kubernetes cluster** with virtual machine **nodes,** simulating production environment.*

⌂ Project Repository

- **Established Kubernetes cluster** on virtual machines for production-like environment.
- Segregated environments with namespaces for development and production.
- **Dockerized** application segments for encapsulation.
- Deployed **containerized** episodes with efficient Kubernetes resource configuration.
- Configured designated virtual machines as cluster nodes for seamless communication.

- Tested episodes within **pods** for functionality and compatibility.
- Implemented **horizontal scaling** for optimal resource usage.

Database-Project   **FAST, Nuces 06/2023**

*Google Classroom Clone: Created replica of Google Classroom with **C# and MySQL** for efficient **database management** and teacher-student communication.*

 Project Repository
- Designed backend with **C# and MySQL** for efficient data handling.
- Developed user-friendly interface for **teachers to manage classrooms and assignments.**
- Enabled student features **mirroring Google Classroom functionalities.**
- Implemented **optimized queries** for high traffic.
- Applied professional database design for **data integrity**.
- Facilitated **real-time communication** between teachers and students.

Skills
- **Web Engineering: MERN Stack,Backend (Node), Docker , Kubernetes, CI/ CD Pipelines (Github Actions , Jenkins.)**
- **Artificial Intelligence: Model Training**, **Genetic Algorithm,** Machine Learning Concepts, Neural Networks.
- **Information Security:** Ciphers, Hash Generation, Digital Signatures and Certificates, Password Cracking, Phishing Attacks, Sniffing, Spoofing, Web Security.
- **DataBase:** Database Management Systems (DBMS) including MySQL, MongoDB, etc., Database schemas and data modeling, CRUD operations (Create, Read, Update, Delete), Password Cracking, encryption, decryption.
- **Soft Skills:** Presentation, Planning, Organized, Creative Problem-Solving, Teamwork, Active Listening, Adaptability, Analytical Thinking.

EDUCATION

BSc Software Engineering   **2021-2025**

Relevant Courses: Software Requirements Engineering, Operating System, Artificial Intelligence, Web Engineering, DevOps , Information Security, Computer Networks, DSA , Software Design and Architecture , Business Process Mining Databases.

FSc Pre Engineering   **2019-2021, 88%**

Maths , Physics, Chemistry

Shining Star Public School   **2017-2019, 87%**

Maths, Physics, Computer

LANGUAGES

- English
- Punjabi
- Urdu