Unais K

Portfolio | LinkedIn | GitHub | Docker hub

Location: Kochi, Kerala, India
Email: unais5676@gmail.com | Mobile: +91 7907844545

FULL STACK DEVELOPER

Self-taught **MERN Full Stack** developer with Project experience. I have a solid grasp of **REST APIs, NoSQL databases, Node.js, React.js, Microservices, Docker, Kubernetes**, and more. I have a strong technical foundation in software development and I'm enthusiastic about creating scalable and reliable applications.

TECHNICAL SKILLS

Languages	:	JavaScript, Typescript, HTML, CSS
Frameworks	:	Express
Server	:	Node.js
Libraries	:	React.js, Redux, React Router, Next.js
Cloud Platforms	:	Amazon Web Services(AWS) EC2, DigitalOcean
Databases	:	MongoDB, PostgreSQL
Version Control	:	Git
API Development	:	RESTful API
API Testing	:	Postman
Architecture	:	MVC, Microservices and Monolithic
DevOps	:	GitHub Action, Docker, Kubernetes
Others	:	JWT, NATS

PROJECTS

Juco Berry E-commerce website   *Handlebars, CSS, Nodejs, Express.js, MongoDB, Git, Docker, CI-CD, AWS*   Source Code

- I designed and developed a modern website using **Handlebars, CSS, and JavaScript** utilized technologies like **Node.js, Express.js, and MongoDB** for this project.
- This project involved creating a tailored food ordering website for a specific restaurant, guaranteeing a seamless and enjoyable dining experience for users
- Implemented session and cookies for authentication, with **Twilio Authentication API for 2FA**.
- Integrated **Razorpay** for payment processing, supporting both online payments and COD.
- I implemented an **MVC architecture** to manage and scale the application effectively.
- The application was hosted on **AWS EC2 with nginx** for reliable and scalable deployment. Additionally, I **Dockerized** the application for easier portability and deployment.
- I also set up automated deployment processes using GitHub Actions for Continuous Integration and Continuous Deployment **(CI/CD)**.

Online Ticketing Platform - (on-progress) *Typescript, Microservice, NATS, Docker, Kubernetes, Redis, CI-CD, Jest* Source Code

- Architected and devoloped a comprehensive online ticketing platform, utilizing a **microservice architecture** for modularity and scalability .
- Deployed and managed the microservices using **Kubernetes**, enhancing scalability and fault tolerance, and employed **ingress-nginx** for load balancing and routing
- Crafted and shared **npm package** (@unaiztickets/common) to centralize common code and improve maintainability across services.
- Employed **Jest** for extensive **automated testing** and integrated tests into the **CI pipeline** ensuring high code quality and facilitating test-driven development practices.
- Utilized **Typescript** for strict typing, contributing to robust and maintainable code
- Containerized services with **Docker**, ensuring consistent environment and easy scalability across development, testing and production.
- Incorporated **custom error handling** mechanism to enhance user experience by gracefully managing and reporting exceptions.
- Leverage **Git** for version control, facilitating collaborative development and efficient code management.
- Consolidated key functionalities into specialized services : **Auth** for secure **JWT**-based authentication, **Payments** for **Stripe**-integrated transaction processing, **Client** for interactive **Next.js** front-end, **Orders** and **Tickets** for managing the lifecycle of purchases, and **Expiration** for timing operations with **Redis**

MINI-PROJECTS

Next.js-13 Promptopia   *Next.js-13, Nodejs, Express.js, MongoDB, Tailwind*   Live link

- Spearheaded the development of Promptia, an innovative open-source AI prompting tool for streamlined prompt creation, editing, and deletion using **Next.js 13**.
- Engineered a serverless backend infrastructure to enhance user experience, seamlessly integrating both frontend and backend on a unified port.
- Implemented robust authentication mechanisms through **NextAuth**, employing the **Google provider** for user-friendly account sign-ins.
- Enhanced search capabilities, allowing users to efficiently discover prompts by username, tag name, and prompt message, optimizing content accessibility.
- Elevated user interaction by making tags clickable, facilitating easy navigation and exploration through a seamless redirect to the search bar.
- Implemented a user-friendly feature enabling the quick copying of prompt messages to the clipboard, enhancing usability and sharing capabilities.
- Applied advanced styling techniques with Tailwind CSS, ensuring a visually appealing and responsive user interface for an optimal user experience.

Coursera   *React, Nodejs, Express.js, MongoDB, Redux, Docker, Docker-compose, React-bootstarp, JWT*   Source Code

- Developed a comprehensive Course Management Web Application using React, showcasing expertise in MERN Full Stack development.
- Implemented a dynamic frontend with features such as course listing, detailed course screens, and a user-friendly student dashboard.
- Utilized advanced state management techniques, incorporating **Redux toolki** for efficient data handling in the frontend.
- Engineered a secure backend with API endpoints for retrieving course lists, details, enrollment, and marking courses as completed.
- Integrated **Docker** for seamless deployment, offering flexibility with two deployment options for local systems.
- Demonstrated proficiency in backend development by creating API endpoints for various functionalities, including course retrieval, enrollment, and completion marking.
- Incorporated pagination for optimized performance, limiting the number of courses returned per request.
- Ensured project scalability by integrating MongoDB Atlas Cloud and implementing JWT authentication for secure user sessions.

Microservice-mini-blog-project   *React, Nodejs, Express.js,, Git, Docker, Microservices, Kubernetes*   Source Code

- Developed a microservice-based mini blog system with **six individual services**, each running on separate ports.
- Managed the creation and retrieval of posts using the Post Service, and handled comments related to posts with the Comment Service.
- Containerized the entire project using **Docker**, ensuring isolation and reproducibility of the environment.
- Orchestrated deployment and scaling of containers using **Kubernetes**, guaranteeing high availability and scalability of the application.
- Implemented continuous deployment with **Skaffold**, automating the build and deployment process, and enabling seamless updates.
- Built a **custom event bus broker** from scratch using Express.js to facilitate communication between services, ensuring loose coupling and robust interaction.

MERN authentication mini-project   *React, Nodejs, Express.js,, MongoDB, Redux, JWT*   Source Code

- Designed and developed a full-stack authentication system using **MERN (MongoDB, Express.js, React, Node.js)** stack.
- Implemented a secure user authentication flow, including registration, login, and logout functionalities, utilizing **JWT (JSON Web Tokens)** for enhanced security.
- Developed robust backend functionality with **Node.js and Express.js**, utilizing **RESTful API** endpoints for seamless communication between frontend and backend.
- Leveraged **MongoDB** for efficient data storage and retrieval, ensuring scalability and flexibility in handling user and admin data.

- Utilized **Redux Toolkit** for state management, enabling efficient handling of application state and ensuring a smooth user experience.
- Implemented user profile management, allowing users to register, update their profiles, and upload profile images using the **Multer** package for file handling.
- Incorporated **JWT cookies** for secure authentication, enhancing the project's security measures and protecting user data.
- Implemented admin functionalities, including the ability to edit admin profile, list users, edit user data, and delete user accounts, providing comprehensive admin control and management capabilities.

EXPERIENCE

MERN Full Stack Developer - Self Learn   Feb 2023 – Present
Brototype   *Kochi, Kerala*

- I designed and depployed a high-performance E-commerce website that is interactive and adaptable, using **Handlebars, CSS, JavaScript**. I utilized advanced technologies such as **Node.js, Express.js, Mongoose, and MongoDB** for this e-commerce project. It was organized following a **Model-View-Controller (MVC)** approach, which ensures easy management and scalability.
- Worked with **REST APIs** to retrieve and display data from databases
- I have experience working with **Docker** and setting up automated deployment processes using GitHub Actions for **Continuous Integration and Continuous Deployment (CI/CD)**.
- Fortified transaction security by integrating **Twilio's 2FA** and **Razorpay** for payment processing, enhancing the website's trustworthiness.
- Architected a **Online Ticketing platform** using microservices design, ensuring high availabilty and robust performance with **Docker**,**Kubernetes** and **NATS** streaming
- Centralized shared logic by creating a **npm package** (@unaiztickets/common), which improved the code mainatainability across microservices.

EDUCATION

Bachelor of Commerce (B-com)   Kannur, Kerala, India
Sir Syed Institure for Technical Studies, Kannur University   *Jun 2016 – Jun 2019*