

# Unais K

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## FULL STACK DEVELOPER

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Self-taught **MERN Full Stack** developer with **9 months** of industrial 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

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

## PROJECTS

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**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 developed 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

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### 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 **Scaffold**, 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

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### **MERN Full Stack Developer - Self Learn**

*Brototype*

Feb 2023 – Present

*Kochi, Kerala*

- I designed and deployed 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 availability and robust performance with **Docker, Kubernetes** and **NATS** streaming
- Centralized shared logic by creating a **npm package** (@unaiztickets/common), which improved the code maintainability across microservices.

## EDUCATION

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### **Bachelor of Commerce (B-com)**

*Sir Syed Institute for Technical Studies, Kannur University*

Kannur, Kerala, India

*Jun 2016 – Jun 2019*