Yalçıncan Ulus

Full-Stack Web Developer

⊙ Türkiye

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🌐 ulus.uk

Profiles

- **Github**
- **Linkedin**

Education

Istanbul Technical University
MSc.
Earthquake Engineering

Sakarya University
BSc.
Civil Engineering

Skills

- TypeScript / JavaScript
- Node.js / Express
- PostgresQL / SQLite / MongoDB
- React
- Vite
- TailwindCSS
- Turborepo
- Redis
- Docker
- S3

Languages

English

Turkish

Publications

Soil–Structure Interaction Consideration for Base Isolated Structures under Earthquake Excitation
March 2023
MDPI Buildings
18 Citations. Developed custom software for the research paper.

Summary

Versatile Full-Stack Developer with expertise in React, TypeScript, JavaScript, Node.js, and modern runtime environments like Bun. Experienced in designing decoupled architectures, implementing secure authentication, and building real-time interactive systems. Passionate about end-to-end type safety and streamlined DevOps, with automated CI/CD, Docker containerization and deployments.

Projects

Social Media Platform | TypeScript, React, Node.js/Bun, PostgreSQL, Redis, Turborepo, Docker

- **Engineered a highly scalable social platform** deployed as a **Turborepo** monorepo, achieving end-to-end type safety from the **Node.js/Bun API** down to the **React** client.
- **Architected a resilient backend ecosystem**, leveraging **PostgreSQL** and **Drizzle ORM** for primary data, **WebSockets** for live notifications, **Redis** for high-speed caching, and S3 for media storage.
- **Orchestrated complex production deployments** utilizing **Docker Compose** to manage databases, cache layers, and heavily optimized multi-stage container builds on a Linux VPS.

Github Repository

Real-Time Messaging App | React, Node.js/Bun, Socket.IO, MongoDB, Docker, Tailwind

- **Engineered a full-stack real-time chat application**, facilitating live one-on-one messaging and a friend request system using **React**, **TypeScript**, and Socket.io (WebSockets).
- **Architected a RESTful backend** using **Express.js** and **MongoDB** (Mongoose).
- **Optimized frontend performance and UX** by implementing cursor-based infinite scroll for paginated chat histories, utilizing **TanStack Query** for server-side state and **TanStack Router** for file-based routing.
- **Streamlined deployment** by containerizing the application using multi-stage **Docker** builds, compiling the backend into a highly optimized single-file executable, and serving the frontend via Nginx on a VPS.

Github Repository

Experience

Freelance Client (Restaurant Industry)   Siem Reap, KH (Remote)
Front End Developer   May 2024

Built a responsive and interactive menu application for in-restaurant customer use. Implemented using React with TypeScript, Vite, and Tailwind CSS, featuring category-based navigation and fast client-side routing. Optimized for mobile devices and deployed on static hosting platforms.
Live Website