

Rand Hasib

Software Engineer

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SUMMARY

Software engineer building full-stack applications, primarily with Golang, TypeScript, and React. Systems thinker drawn to backend systems and understanding software from first principles.

PROJECTS

E-Campus — Capstone Project | *Golang, PostgreSQL, Redis, MinIO, TypeScript, React* [GitHub](#)

- Architected an end-to-end educational platform for university administration, classroom management, and a social feed, built as a modular monolith with hexagonal architecture and a 65+ table schema.
- Implemented an append-only data model for critical academic records, ensuring complete history auditability and computing read-time derived aggregates to eliminate silent data drift.
- Designed an API modeled after Google's API Improvement Proposals (AIPs), secured by a custom policy engine at the HTTP edge that gates access by organizational scope, course seat, and permission level.
- Built a centralized file storage subsystem using MinIO, structured around a Unix inode-inspired, content-addressed design to manage system-wide deduplication and safe deletion via reference counting.

HTTP from TCP | *Golang* [GitHub](#)

- Implemented an HTTP/1.1 protocol server over raw TCP sockets, managing low-level byte stream parsing, partial read fragmentation, and structured response serialization without external networking frameworks.

LibraryMS | *C#, ASP.NET Core, EF Core, TypeScript, React, TypeScript* [GitHub](#)

- Built a full-stack library management system for cataloguing books, managing members, and handling borrowing with separate staff and member roles, featuring automated tracking for loans, returns, overdue fines, and early-return rewards.

Personal Expense Tracker | *Next.js, TypeScript, Prisma, PostgreSQL* [GitHub](#)

- Developed a minimal personal finance tracker for income, expenses, and debts, organized by category.

TECHNICAL SKILLS

Backend: Golang, TypeScript, Node.js, C#

Databases: PostgreSQL, Redis, Prisma

Frontend: React, Next.js, Tailwind CSS, HTML/CSS

Systems: Linux, Git, Docker, Neovim, Herdr

EDUCATION

University of Sulaimani

B.Sc. in Computer Science

Sulaimani, Iraq

2022 – 2026

LANGUAGES

Kurdish (Native) | English (C1) | Persian (B1) | Arabic (Lower B1)