

TUM Study Planner Application

Frontend

React Client
(TypeScript + Vite)

HTTPS

Backend Services

API Gateway

User Auth Service

Study Plan Service

AI Advisor Service

Program Catalog Service

LLM Inference Service
(FastAPI + Python)

Monitoring & Observability

Prometheus

Loki + Promtail

Grafana

Infrastructure

Terraform

Ansible

Kubernetes

Docker

Data Storage

PostgreSQL
(Auth)

PostgreSQL
(Study Plans)

PostgreSQL
(Study Data)

Weaviate
(Vector DB)

External Services

Google Gemini API

AI requests

