

Work Experience

Jul 2024 – Present

China National Petroleum Corporation (CNPC)

Software Engineer



❑ Solved Data Packet Loss in Marine Navigation System

1. Designed a **Redis**-based **C++** message queue middleware, resolved 32% data packet loss.
2. Achieved 1,000+ concurrent connections through optimized connection pooling and stress testing.
3. Deployed solution in ADNOC's multi-source project, eliminating packet loss since implementation.

❑ Database Interaction Module Development

1. Developed **Qt-SQL Server** interface

❑ Built enterprise AI infrastructure

1. Deployed DeepSeek-70B locally(Ubuntu 22.04/Docker)
2. Customized Dify platform for secure LAN access with encrypted knowledge base

❑ Exploration on Hardware Design

1. GNSS Timing Module: **3D-printed** casing → chip selection → **EDA schematic** design → SMT process → Coding (**Keil/CubeMax**) for antenna signal acquisition → Qt for PC/Android for handheld device software development