

# Javohir (Ned)

## Backend dasturchi va PostgreSQL DBA

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### Qisqacha

Men Javohir, PostgreSQL markazida ishonchli backend tizimlar quradigan backend dasturchiman. Double-entry ledger, PostgreSQL monitoring platformasi, real ESP32 sensorlari bilan sinalgan IoT pipeline va Saga/Outbox asosidagi live-commerce kabi tizimlarni o'zim loyihalab, deploy qilganman. Kuchli tomonlarim: ma'lumotlar bazasi dizayni va performance optimizatsiyasi, concurrency nazorati va tranzaksiya yaxlitligi. 4 yillik tajribam davomida NestJS va Java/Kotlin/Spring Boot bilan ishlaganman, jumladan O'zbekistondagi Sigma Software va LeverX Group'da, shuningdek BAA, Gonkong va Bangladeshdagi ishlab chiqarish, F&B va AI xizmatlari kompaniyalari uchun freelance backend va DB tizimlarini ishlab chiqqanman.

### Ko'nikmalar

|                      |                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------|
| Tillar               | TypeScript, MicroPython, Java, Lua, Kotlin                                                               |
| Frameworklar         | NestJS, Prisma, zod, GraphQL, Spring Boot, Spring Data JPA, Bucket4j, Spring Cloud Gateway               |
| Ma'lumotlar bazalari | PostgreSQL, TimescaleDB, MongoDB, Redis                                                                  |
| Infratuzilma         | Docker, Caddy, node-pg-migrate, GitHub Actions, Flyway, Cloudflare, Toss Payments, OpenTelemetry, Jaeger |
| Xabar almashish      | Socket.IO, BullMQ, MQTT, Apache Kafka, WebSocket (STOMP)                                                 |
| Test                 | Jest, Vitest, k6, JUnit 5, Testcontainers                                                                |
| Frontend             | React, Vite, Tailwind CSS, Recharts, Leaflet, Next.js                                                    |
| Qurilmalar           | ESP32                                                                                                    |

### Tajriba

#### Backend dasturchi (masofaviy, Toshkent)

2024.09 - 2025.08

Sigma Software

- Buyurtma ro'yxati API p95 1.4 s → 210 ms: kompozit indeks qo'shildi, N+1 so'rovlar bitta JOIN'ga birlashtirildi (Grafana p95 oldin/keyin)
- Redis kesh joriy qilingach, asosiy DB'ga takroriy o'qish so'rovlari ~45% kamaydi (pg\_stat\_statements calls oldin/keyin)
- Streaming Replication asosidagi Primary-Standby HA sozlashda ishtirok etdim; failover 5-10 soniyada
- Yevropalik mijoz uchun buyurtma va hisob-faktura API'larini Java/Kotlin, Spring Boot'da loyihaladim, Flyway migratsiyalarini joriy qildim

## Backend dasturchi va PostgreSQL DBA (masofaviy, Toshkent)

2022.10 - 2024.05

LeverX Group

- PostgreSQL 13 → 15 major upgrade'ni logical replication orqali servisni to'xtatmasdan yakunladim
- Ichki tizimlar o'rtasida ma'lumot almashuvchi integratsiya servisini yozib, qo'lda bajariladigan ishlarni olib tashladim
- Katta hisobotlarga pagination va batch eksport qo'shib, serverni yuklamasdan bo'laklab qayta ishlashni ta'minladim
- Unit va integratsiya testlarini yozib CI'ga uladim, sekin DB so'rovlarini optimallashtirdim

## Backend va Database dasturchi (masofaviy)

2021.11 - 2025.09

Frilans

- BAA, Ishlab chiqarish · 2021.11 - 2022.04 (6 oy), Hisobot yuklanishi 12 s → 0.8 s (~15x); DB'dagi umumiy yuklama kamaydi
- Gonkong, Restoran / F&B · 2023.01 - 2023.04 (4 oy), Ortiqcha superuser ulanishlari 7 → 0; backup'dan tiklash testda 15 daqiqadan kam
- Bangladesh, AI xizmatlari · WellDev Bangladesh Ltd. · 2025.03 - 2025.09 (6 oy), INSERT p95 320 ms → 45 ms (~7x); aktiv ma'lumot 180 GB → 22 GB

## Loyihalar

### PG Insight

2026.08 - 2026.10

Ochiq multi-tenant monitoring xizmati: har kim ro'yxatdan o'tib, o'z PostgreSQL bazasini qo'shadi va faqat o'zi qo'shgan bazalarni ko'radi

NestJS, TypeScript, Prisma, PostgreSQL, TimescaleDB, Socket.IO, React, Vite, Tailwind CSS, Recharts, Jest, Vitest, Docker, Caddy

- Tenant izolyatsiyasi: global guard har bir :targetId route'ida egani tekshiradi, begona target'ga 403 emas, 404 qaytaradi; himoyasiz mutating route qo'shilsa test yiqiladi
- SSRF himoyasi: DNS javobidagi barcha IP tekshiriladi, ulanish tekshirilgan IP'ga qotiriladi (TLS SNI saqlanadi); production'da platform-db, 169.254.169.254, 127.0.0.1 rad etildi

[pginsight.javohir.dev](https://pginsight.javohir.dev) | [github.com/kicheol83/pg-insight](https://github.com/kicheol83/pg-insight)

### LedgerCore

2026.08 - 2026.10

Pul o'z-o'zidan paydo bo'lmaydigan va yo'qolmaydigan, hech bir o'tkazma ikki marta bajarilmaydigan PostgreSQL double-entry ledger

NestJS, TypeScript, PostgreSQL, node-pg-migrate, zod, React, Vite, Vitest, k6, Docker, Caddy, GitHub Actions

- Parallellikda to'g'rilik: tartiblangan qator qulflari bilan 12/12 yuk testida deadlock 0 va fault 0; reversal race topilib, test bilan tuzatildi
- Invariantlar bazada: debet = kredit qoidasi COMMIT paytida trigger bilan tekshiriladi; yuk ostida ham, zaxiradan tiklangan bazada ham imbalance 0

[ledger.javohir.dev](https://ledger.javohir.dev) | [github.com/kicheol83/ledger\\_core](https://github.com/kicheol83/ledger_core)

## Smart Farm

2026.01 - 2026.10

Issiqxona uchun real-time IoT monitoring va avtomatik sug'orish: ESP32 sensor → MQTT → pipeline → qoida → nasos → yana qurilmaga yopiladigan kontur

NestJS, TypeScript, GraphQL, MongoDB, Redis, BullMQ, MQTT, Socket.IO, React, Vite, Leaflet, ESP32, MicroPython, Jest, Docker, Caddy

- IoT ma'lumotlari yo'qolmasligini o'lchab isbotlash: MongoDB 132 s o'chganda 24/24, backend 20 s to'xtaganda 7/7; eski koddagi yo'qotish (12 dan 1, deploy'da 1) avval o'lchangan
- Xavfsizlik auditi va tuzatish: signup'da ADMIN bo'lish, ixtiyoriy maydon yozish, boshqa a'zo resursiga kirish, OTP'ni cheksiz taxmin qilish, kodga yozilgan JWT kaliti kabi 12+ zaiflik production'dagi suiiste'mol izlari tekshirilgach yopildi

[farm.javohir.dev](https://farm.javohir.dev) | [github.com/kicheol83/smart-farm](https://github.com/kicheol83/smart-farm)

## FlashDrop

2026.09 - 2026.10

Ortiqcha berilmaydigan navbat kuponlari: 4 concurrency usuli yozilib, k6 bilan o'lchab solishtirildi

Java, Spring Boot, Spring Data JPA, PostgreSQL, Redis, Lua, Flyway, Bucket4j, JUnit 5, Testcontainers, k6, Docker, Caddy, Cloudflare

- Muammoni isbotlash: lock'siz usul 50 o'rniga 300 ta kupon berdi, remaining\_quantity esa 0 emas, 46 da qoldi
- To'g'ri yechimlar: qolgan uch strategiya 300 so'rovdan aniq 50 tasini o'tkazdi, DB'da ham aynan 50 ta yozuv

[flashdrop.javohir.dev](https://flashdrop.javohir.dev) | [github.com/kicheol83/flashdrop](https://github.com/kicheol83/flashdrop)

## LiveCommerce

2026.09 - 2026.10

Jonli efir paytidagi cheklangan flash sale platformasi: 100 dona uchun 1 000 xarid urinishi, ortiqcha sotuv 0

Kotlin, Spring Boot, Spring Cloud Gateway, Spring Data JPA, PostgreSQL, Apache Kafka, WebSocket (STOMP), Flyway, Toss Payments, OpenTelemetry, Jaeger, Next.js, TypeScript, Tailwind CSS, JUnit 5, k6, Docker, Caddy

- To'g'rilik: 100 dona uchun 1 000 urinish, 3 run — 0 ortiqcha sotuv, to'lov va sotilgan dona nomuvofiqligi 0, HTTP xato 0; har run oxirida 5 ta invariant tekshiriladi
- Nosozlikka chidamlilik: Kafka yoki to'lov bazasi haqiqatan to'xtatilganda ham 0 ta event yo'qolmaydi, 0 ta ikki marta pul yechilmaydi (chaos testlari)

[live.javohir.dev](https://live.javohir.dev) | [github.com/kicheol83/livecommerce-saga](https://github.com/kicheol83/livecommerce-saga)

## Ta'lim

### Seowon universiteti

2022.08 - 2026.08

Biznes boshqaruvi bakalavri, Global Business

### MIT Group (DevEx Academy)

Backend dasturlash bootcamp

## Tillar

- O'zbek tili: Ona tili
- Koreys tili: TOPIK II 6-daraja, ishda erkin muloqot
- Ingliz tili: Texnik hujjat va muhokamalarni tushunaman, gapirish boshlang'ich
- Rus tili: Tushunaman, oddiy suhbat