

SUMMARY

Backend Engineer with 3+ years of experience. Solo-architected a serverless backend serving 60K+ MAU – 140+ API routes, 100+ database tables, 35+ cron jobs, and 3 payment gateway integrations on Cloudflare Workers.

EXPERIENCE

- **Software Engineer** Apr 2022 – Present
StoneLab, Seoul, South Korea
 - Architected ARIA Wellness Android app (Kotlin, Jetpack Compose, Room, Hilt, StateFlow) with Clean Architecture and real-time audio therapy via ExoPlayer
 - Built FeelFlow cross-platform mental health app (Flutter) – designed auth, MVVM architecture, and core modules for Android and iOS
 - Developed npbeats interactive audio platform (React, TypeScript, Tone.js, Wavesurfer.js) with real-time synthesis and waveform visualization
 - Mentored a freelancer and an intern on architecture decisions and code review practices

PROJECTS

- **Spiko – AI English Exam Coaching App** (spiko.uz)
 - Architected serverless backend serving 60K+ MAU on Cloudflare Workers (Hono, TypeScript) with 99.9% uptime
 - Designed 100+ table normalized schema across D1 databases with 80+ migrations, isolating high-write tables for performance
 - Built 140+ REST API routes spanning 24 feature modules: auth, exams, gamification, payments, subscriptions, and notifications
 - Implemented async AI exam grading pipeline using Cloudflare Queues and Durable Objects with 24-hour TTL and automatic cleanup
 - Integrated 3 payment gateways (Click, Payme, Paynet) with webhook processors, subscription state machines, and recovery cron jobs
 - Deployed 35+ cron jobs for leaderboard resets, subscription lifecycle, 11 notification types, and token cleanup
- **Open Source Contributions**
 - Published uzpay, a zero-dependency runtime-agnostic TypeScript SDK for 3 Uzbek payment providers with ~80 weekly npm downloads (npm/uzpay)
 - Contributed type regression tests to Hono web framework (30K+ stars), fixing route type inference bug (#4722)

SKILLS

- **Languages:** TypeScript, Kotlin, SQL
- **Backend:** Hono, Cloudflare Workers, D1, R2, Queues, Durable Objects, SQLite, REST APIs, JWT, WebSocket
- **Tools:** Git, Firebase, npm, Wrangler

EDUCATION

- **B.S. Computer Science and Engineering** 2024
Ulsan National Institute of Science and Technology (UNIST)