

Bassel Alshayeb

Senior Backend / Backend-heavy Fullstack Engineer · Node.js / TypeScript · PHP / Laravel · Go

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· Saint Petersburg, Russia

PROFILE

Senior Backend Engineer with 6+ years of commercial experience, frequently operating as sole backend engineer on production systems — across iGaming, GovTech, FinTech, POS/SaaS, and IoT. Built and owned full microservices architectures, game provider integrations, and an AI-powered clinical assistant piloted in a real medical facility. Comfortable taking a backend-heavy fullstack role where needed.

Core stack	Node.js / TypeScript, PHP / Laravel, Go, Java / Spring Boot
Backend	Microservices, REST API, WebSocket, distributed messaging, system design, high-load services
Data & infra	PostgreSQL, MongoDB, MySQL/MariaDB, Redis, RabbitMQ, Kafka, NATS, Docker, CI/CD, Linux, AWS, Nginx
Languages	Arabic — native · English — fluent / C1 · Russian — C1
Target	International remote roles; open to UAE / GCC / EU / UK relocation or hybrid with employer support

EXPERIENCE

Senior Backend Developer (Node.js / TypeScript / Go)

Jun 2025 – Present

Larsa · larsa.org · Saint Petersburg / UAE GovTech

- **Sole backend engineer** on Tahkeem (tahkeem.ha.ae), a UAE Government awards and competition platform with 14,000+ registered users and 2,000+ submitted applications across evaluation cycles; owned the full backend architecture of 12 microservices end-to-end.
- Designed and maintained Node.js / TypeScript services for application evaluation pipelines, multi-stage jury workflows, notifications, and service-to-service APIs; contributed to Go services for high-throughput data processing over NATS.
- Responsible for the full delivery lifecycle across all services — design, implementation, deployment, and production support — operating as a one-person backend team on a live government platform.

Stack: Node.js, TypeScript, Go, MongoDB, NATS, REST API, Microservices, Docker

Senior Backend Developer (Laravel / Node.js / Java)

Oct 2023 – Mar 2025

Sigma Digital · 1xbet group · Saint Petersburg

- **Sole backend engineer** across iGaming and FinTech products; built Slotaxy on Laravel + Node.js for 10,000+ active players, integrating BGaming, Slotegrator, and Pragmatic Play through a unified provider abstraction layer with distinct API contracts per provider; implemented real-time game flows via WebSocket with CI/CD on Ubuntu.
- Designed Vektor, a government-grade FinTech system on Java / Spring Boot 3.4 + Spring Cloud, decomposed into 6 microservices with Eureka service discovery, RabbitMQ event-driven communication, PostgreSQL, and fault-tolerant service design; led full architecture planning, including workflow modeling in draw.io and requirements collection.
- Owned all architecture decisions, production incidents, and delivery with no other backend engineers across both products; built and maintained integration interfaces for multiple payment providers, each with separate documentation and API formats.

Stack: Laravel, Node.js, Java, Spring Boot, Spring Cloud, PostgreSQL, RabbitMQ, WebSocket, CI/CD, Ubuntu

Senior Fullstack Developer (Laravel / Vue.js)

Oct 2022 – Oct 2023

BelnMedia / Wiyak · wiyak.com · Kuwait

- Maintained and enhanced the real-time order delivery subsystem for Wiyak POS (1,000+ restaurants across Kuwait): implemented new features within the existing Laravel Echo/WebSocket architecture, rigorously managing state synchronization across driver locations, order acknowledgments, and payment states without disrupting live operations.
- Delivered backend-heavy features across the full Wiyak POS ecosystem from requirements through QA to production; contributed to NmoHR, a SaaS business-automation product for HR and operational workflows.

Stack: Laravel, Vue.js, MariaDB, Laravel Echo, WebSocket, CI/CD, Ubuntu

Fullstack Engineer (Laravel / Vue.js / Node.js)

Jul 2021 – Oct 2022

PlanA Agency · plana.ae · Dubai, UAE

- Built cryptodesk.ae, a crypto exchange dashboard with Binance API integration; implemented custom commission logic and precise decimal arithmetic for trade amount calculations across multiple currency pairs.
- Integrated the Amadeus Flight API to deliver a full flight search and reservation system; delivered additional client web applications, including trustyourwater.ae and decorious.com.

Stack: Laravel, Vue.js, Node.js, MySQL, Nginx

Backend Engineer (Node.js)

Aug 2020 – Mar 2021

Disrupt-x / Unifi Solutions · disrupt-x.io · Dubai, UAE

- Developed IoT security platform services for Dubai, integrating hardware sensors (smart waste monitoring, security alarms) with Dubai Police law-enforcement APIs using the SIA protocol; deployed backend services on AWS.
- Led backend development of Writables, a content platform for music writers and creators; built and deployed core services on AWS.

Stack: Node.js, Express.js, MySQL, MariaDB, AWS, IoT Sensors

EARLIER EXPERIENCE

Mygym / Gymesys · Founder & Fullstack Engineer, 2018–2020 — Founded and built a SaaS gym management system from zero: product roadmap, schema design, full-stack implementation, and direct client communication. Stack: Laravel, Vue.js, MySQL.

TradinosUG · Fullstack Engineer, Feb–Jul 2021 — LitePOS: a POS system with e-commerce support built in an Agile team. Stack: React.js, Laravel, MySQL, Docker.

ALTamayoz Association · Freelance, 2021 — HR system and e-commerce platform for an NGO; database design and requirements analysis. Stack: Laravel, Vue.js, MySQL, Nginx.

SELECTED PROJECT

AI Voice Assistant for Dentists — STOMMIS Integration · SPbU Master's Graduation Project

- Built a hands-free clinical voice assistant integrated with the STOMMIS dental MIS, piloted at SPb GBUZ SP No. 8 with a **signed institutional adoption agreement**; end-to-end pipeline: browser-side VAD → Yandex SpeechKit ASR → command classifier → Qwen LLM → JSON Schema validation → REST API write to MIS.
- Designed a two-stage noise gate: a TF-IDF + logistic regression **command/not-command classifier** (trained on 8,000 synthetic transcriptions, F1 = 1.00 on a synthetic held-out test set) gates LLM invocation — reducing audio processed per 10-minute session from ~600s to 18–30s, a **95–97% reduction** in ASR and LLM cost.
- LLM output constrained to a strict intent + slots JSON contract; JSON Schema validation and intent whitelist applied before any MIS write; fail-safe design ensures no medical record is modified unless the full pipeline validates cleanly. End-to-end command latency ≈ 2–3 seconds.

SKILLS

Languages	Node.js, TypeScript, PHP, Java, Go, Python
Frameworks	Laravel, NestJS, Express.js, Spring Boot 3.x, Spring Cloud, Vue.js, React.js, Angular
Databases & Messaging	PostgreSQL, MongoDB, MySQL, MariaDB, Redis, RabbitMQ, Apache Kafka, NATS
Architecture & DevOps	Microservices, REST API, WebSocket, Distributed Systems, SOLID, TDD, Docker, CI/CD, Nginx, Linux, AWS
Tools	Git, Elasticsearch, Postman, Agile/Scrum, GitHub Copilot, Claude, ChatGPT/Codex

EDUCATION & ACHIEVEMENTS

M.Sc. Software Engineering · Saint Petersburg State University, Faculty of Mathematics & Mechanics 2024 – 2026
GPA 5.0 / 5.0 (with distinction). Graduation project: AI Voice Assistant for Dentists — signed clinical adoption, 95–97% ASR/LLM cost reduction, F1 = 1.00.

B.Sc. Software Engineering · University of Damascus 2015 – 2020

Al-Basil Certificate for Academic Excellence, 2018–2019 — Awarded for outstanding academic performance.

ICPC / DCPC Damascus Collegiate Programming Contest, 2016–2019 — Three consecutive participations.