PÉTER JÓNÁS

CRM / ERP & Billing Platforms | Scalable & Reliable Systems

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PROFESSION SUMMARY

- Freelance **backend engineer with 10+ years of experience** helping companies design, improve and stabilize CRM, ERP and billing systems.
- Specialized in business-critical platforms where **financial accuracy, performance and stable daily operation** are essential.
- Available for short- and mid-term backend projects, system improvements and performance optimization tasks.

HOW I ADD VALUE

- Design backend systems that **follow real business processes**
- Build platforms that remain **stable** as user numbers grow
- Improve **performance** and reduce operational costs
- Deliver clean, maintainable solutions ready for **long-term use**
- **Integrate quickly into existing systems** and deliver practical results

WHAT CAN I DELIVER

- I can design and implement architecture of CRM / ERP & billing systems
- I optimize software for better performance and scalability
- I automate operational workflows
- I provide high-availability production systems
- I can design and build embedded software (resource-critical systems)
- I analyze, fix, optimize and secure AI-generated code

SELECTED PROJECTS

Telecom CRM / ERP & Billing platform
Senior Software Engineer, 2021 – Present

Business-critical CRM and billing system for a telecom company serving thousands of subscribers and service endpoints.

Scope

- Designed and implemented the CRM and billing platform
- Built contract tracking and automated customer communication workflows
- Optimized payment handling processes

Impact

- 115,000+ invoices issued
- Reduced unpaid ratio to one-third
- 98,000+ automated email and SMS messages
- Stable daily operation of a business-critical platform

Enterprise Training Management Platform
Senior Software Engineer, 2018 – 2024

Enterprise-grade education management system supporting corporate training, exams and reporting processes.
Scope

- Designed and implemented the full backend system
- Delivered end-to-end solution in cooperation with stakeholders and domain experts
- Prepared the system for successful cybersecurity audit (OWASP-aligned)
- Optimized reporting and data-processing components for performance

Impact

- Supported training and examination processes for 1,840 employees
- Ensured stable operation under high load (1,094 concurrent online exam users)
- Achieved 2–10× faster response time in critical reporting functions
- Reduced infrastructure resource usage by 20–60%

ISP Provisioning & Automation Platform
Software Engineer, 2011 - 2017

CRM and provisioning platform for multiple internet service providers.
Scope

- Designed and operated business-critical CRM and provisioning systems
- Implemented large-scale billing automation processes
- Optimized system performance and scalability on existing infrastructure
- Designed and delivered a full software stack for a smart-home device package (PIC microcontroller + OpenWrt based cameras)

Impact

- Supported 150,000+ subscribers and 250,000+ service endpoints
- Enabled 10–100× scalability improvements in key system areas
- Automated billing processes supporting 172,000 monthly invoices
- Reduced operational error rate significantly through automation
- Server-side smart-home platform operated without downtime for 3 years

TECHNICAL CAPABILITIES

Backend Technologies	PHP 8, Laravel, SlimPHP, GNU C++, Python
Data & Infrastructure	MySQL, Redis, MongoDB, Docker, Linux, CI/CD
Engineering Approach	Clean architecture, test-driven development, production monitoring

ENGAGEMENT MODEL

- Project-based backend development
- System design and implementation ownership
- Short- to mid-term engagements
- Available for parallel project work
- Remote work (EU timezone)