

Zalka Ernő

Software Engineer
Engineering Manager

📍 Fót, Hungary

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🌐 <https://github.com/ern0>

Technical Skills

C ★★★★★★

C++ ★★★★★★

Python ★★★★★★

Linux Dev ★★★★★☆

Microservices ★★★★★☆

Embedded Systems ★★★★★★

Rust ★★★★★☆

SQL ★★★★★☆

Key-Value DB ★★★★★☆

PHP ★★★★★★

JavaScript ★★★★★☆

HTML/CSS ★★★★★☆

Java ★★★★★☆

Assembly, Demoscene ★★★★★☆

OOP Design ★★★★★★

Documentation ★★★★★★

Multithreading ★★★★★☆

Dataflow Systems ★★★★★★

Unit, Integration Testing ★★★★★★

End-to-end Testing ★★★★★☆

GIT ★★★★★★

Mentoring, Teaching ★★★★★☆

MUMPS, M Technology ★★★★★★

ERP ★★★★★★

Image Editing, GIMP ★★☆☆☆☆

Music Production ★★★★★★

Languages

Hungarian ★★★★★★

English ★★★★★☆

Innovative and dedicated software developer, architect and mentor with experience in various fields and roles. Focusing on long-term goals: quality, maintainability, smooth development process.

Not only creates clean, modular, maintainable code, but inspires and helps others to do the same, educates and supports young talents.

Enjoyed programming since teenager age and still does. Last achievement: learned Rust, created and published first crate, working on a larger multi-client system.

Experience

2023–
–2024 **MUMPS / C Developer/Tester** – *YottaDB LLC, contractor*
• Create integration tests (CSH, Expect, MUMPS)
• Implement / fix platform modules (C, Rust)

2023 **Principal C++ Developer** – *Harman-Kardon Kft*
• Maintain automotive modules (C++)

2022–
–2023 **Principal C Developer** – *AI Fleet (USA startup)*
• Create USA route map cache (C, Python, AWS)
• Optimize solver algorithm (C)

2019–
–2022 **Embedded Systems Developer** – *Heitec Kft*
• Test framework for testing the company's own manufactured PC (Python)
• Create test applications for embedded devices (C/C++)
• Implemented healthcare product firmware (C)

2017–
–2019 **Principal C++ Developer** – *CAE Engineering Kft*
• Implement flight simulator functions (C++)
• Design and implement tools (Python)

2016–
–2017 **Full-Stack Developer, Quality Lead** – *EcoStudio Kft*
• Build microservices architecture application and tests (Node.js, RabbitMQ, Haxe, RethinkDB)

2013–
–2016 **Senior Full-Stack Developer** – *Netavis Kft*
• Mobile-first web app for video monitoring system

2011–
–2013 **Senior Embedded and Systems Developer** – *Intep Kft*
• Outdoor LED wall firmware, font, autokerning renderer
• Payment kiosk firmware, GUI (JavaScript)
• Modular datasheet creator system (PHP)

2006–
–2011 **Systems Architect, Developer** – *Porion Kft, Bitklub Kft*
• Digital television (DVB) SI/EPG inserter (C++), admin UI
• Hierarchical web form editor framework (PHP)
• Home automation-purpose dataflow sytem prototype
• Collaborative spreadsheet concept and prototype

2000–
–2006 **Full-Stack Developer, SEO expert, CTO**
Index.hu Rt, Rakit Kft, Well-Press Kft
• Design, implement, SEO and run touristic portal (PHP)
• Create GUI tool for measuring SEO results (Java)
• Implement simple ad server (PHP)

Education

Széchenyi István Egyetem, Győr

Software Developer

Deák Ferenc SZKI, Győr

IT System Organizer