

Zalka Ernő

Senior Software Engineer

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🌐 <https://github.com/ern0>

Technical Skills (see next page)

C ★★★★★

C++ ★★★★★

Python ★★★★★

Linux ★★★★★☆

Microservices ★★★★★☆

Embedded Systems ★★★★★

MISRA C ★★☆☆☆

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 ★★★★★☆

Continuous Integration ★★★★★☆

MUMPS, M Technology ★★★★★

ERP ★★★★★

Image Editing, GIMP ★★☆☆☆

Music Production ★★★★★

Languages

Hungarian ★★★★★

English ★★★★★☆

Innovative and dedicated software developer with 32 years of experience in various fields and roles. Focused on quality deliverables and a smooth development process. Strong design skills in both problem and solution space. Creates clean, modular, maintainable code, and inspires others to do the same. Familiar with modern principles, methodologies and techniques – and understands their pros and cons. Open to new technologies, but knows when there is no room for experimentation. Believes that anything can be done. Enjoyed programming since he was a teenager and still does.

Experience

2019– 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– C++ Developer

–2019 *CAE Engineering Kft*

- Implement flight simulator functions (C++)
- Design and implement tools (Python)

2016– Web Systems Developer

–2017 *EcoStudio Kft*

- Build microservices architecture application and tests (Node.js, RabbitMQ, Haxe, RethinkDB)

2013– Web Frontend Developer

–2016 *Netavis Kft*

- Mobile-first web app for video monitoring system

2011– Embedded and System Developer

–2013 *Intep Kft*

- Outdoor LED wall firmware, font, autokerning renderer
- Payment kiosk firmware, GUI (JavaScript)
- Modular datasheet creator system (PHP)

2006– System Architect and Developer

–2011 *Porion Kft, Bitklub Kft*

- Digital television (DVB) SI/EPG inserter (C++), admin UI
- Hierarchical web form editor framework (PHP)
- Home automation-purpose dataflow system prototype
- Collaborative spreadsheet concept and prototype

2000– Web Developer, SEO expert, CTO

–2006 *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)

1989– Enterprise developer, CIO

–1999 *Grabo Holding Rt, Uniontext Kft*

- Set up a complete software development and operation department almost from scratch, run entire company's IT
- ISO 9001 compliant logistic system design, supervision

Education

1989– Széchenyi István Egyetem, Győr

–1993 Software Developer

1984– Deák Ferenc (Lengyel Gyula) SZKI, Győr

–1989 IT System Organizer



HR KEYWORD MATRIX		EXPERIENCE		
		STRONG	FAIR	NONE
I N T E R E S T	YES	<i>Best match...</i>	<i>Good match...</i>	<i>Ready to learn...</i>
		<ul style="list-style-type: none"> • C, C++ • Python • Linux • Embedded/IoT • Systems Architect • Multithreading • OOP Design • Design Patterns • GIT, GitFlow • Tooling • Integration Testing • Unit Testing • Teaching, Mentoring 	<ul style="list-style-type: none"> • Assembly • IoT Consultant • IoT Product Design • Microservices • Scrum • Compiler • Emulator • Docker • Key-Value DB • UI/UX Design • Image Processing • SDL2 • LaTeX 	<ul style="list-style-type: none"> • Rust • Django • FPGA • DSP • CUDA • Machine Learning • OpenCV • Security • Functional Programming • Linux Driver Dev. • AWS, Cloud
	MAYBE	<i>Can do...</i>	<i>Will do...</i>	<i>Not planned...</i>
		<ul style="list-style-type: none"> • Backend • ERP Consultant • Full Stack Dev. • Mumps/M/Caché • PHP • SQL, MySQL • Tech Lead • Presentations • Education 	<ul style="list-style-type: none"> • Misra C • Ansible • Continuous Integration • DevOps • Writing tech docs 	<ul style="list-style-type: none"> • .NET/C#/MONO • Big Data • Delphi • Erlang • PL/SQL, Oracle • Ruby, Ruby on Rails • SAP, ABAP • Scala
	NO	<i>Not again...</i>	<i>Forget it...</i>	<i>Strictly avoid...</i>
		<ul style="list-style-type: none"> • CIO • Frontend dev. • JavaScript • Node.js • SEO • Web Development 	<ul style="list-style-type: none"> • Android • OpenGL • HTML, CSS • Java, JEE, Spring • Visual Studio • Project Manager 	<ul style="list-style-type: none"> • Angular.js • ASP.NET • Drupal • Objective-C/iOS • Perl • Visual Basic • Windows dev. • Wordpress

In my experience, larger homework assignments, online tests and paper-based programming exercises do not work. So I reject those.

I'm interested in leader and management positions, but only if don't have to give up programming.

