Zalka Ernő

Software Engineer
Engineering Manager

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Technical Skills

Skill	Rating
C	★★★★★
C++	★★★★★
Python	★★★★★
Linux Dev	★★★★☆
Microservices	★★★★☆
Embedded Systems	★★★★★
Rust	★★★☆☆
SQL	★★★★☆
Key-Value DB	★★★★☆
PHP	★★★★★
JavaScript	★★★★☆
HTML/CSS	★★★★☆
Java	★★★☆☆
Assembly, Demoscene	★★★★☆
Multithreading	★★★★☆
OOP Design	★★★★★
Documentation	★★★★★
Unit, Integration Testing	★★★★☆
End-to-end Testing	★★★★☆
Dataflow Systems	★★★★★
GIT	★★★★★
Mentoring, Teaching	★★★★☆
ERP	★★★★☆
Image Editing, GIMP	★★★☆☆
MUMPS, M Technology	★★★★★
Music Production	★★★★☆

Languages

Language	Rating
Hungarian	★★★★★
English	★★★★☆

Experience

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.

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 system 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