

Ádám Porkoláb, PhD

Senior Full-Stack Engineer & Digital Linguist

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Architectural Summary

(Public Version) Senior full-stack engineer specialized in narrative systems. Full details and portfolio available at aporkolab.com.

Engineering Timeline	
Full Stack Developer (Java / Spring / Angular) Deutsche Telekom	Remote (DE/HU) 2024 – present
• Took full ownership of undocumented legacy modules under high-pressure conditions. • Led architectural refactoring decisions with a focus on long-term maintainability. • Managed async collaboration across international teams (Germany-Hungary).	
Full Stack Developer (PHP / JS / Agile) Games for Business	Pécs, Hungary 2023
• Developed scalable gamified learning platforms using PHP (Laminas) and JavaScript. • Implemented CI/CD workflows and optimized database performance.	
IT Specialist (Network Security & Systems) Baranya County Police Headquarters	Pécs, Hungary 2021 – 2023
• Managed critical infrastructure in a high-security public sector environment. • Supported internal development teams with secure deployment strategies.	
Software Development Intern (Java/Spring) InnoTeq	Pécs, Hungary 2021
• Gained foundational experience in enterprise Java (Spring Boot) and Angular architectures. • Focused on object-oriented design patterns and clean code principles.	
University Student, Assistant Lecturer & PhD Researcher University of Pécs	Pécs, Hungary 2007 – 2020
• Applied analytical systems thinking to break down complex linguistic topics. • Managed research archives and metadata systems; foundations of my data engineering mindset.	

Tech Stack & Capabilities

Backend	Frontend
• Java ecosystem (Spring Boot, Spring MVC, Spring Data) • Microservices & Distributed Systems Design • Legacy Code Refactoring & Stabilization	• Angular (TypeScript, RxJS, Enterprise Components) • Responsive UI/UX Implementation

- Clean Architecture & Design Patterns (Layered Architecture, DI, Service Decomposition)
- REST API Design & Documentation (REST maturity, OpenAPI/Swagger)

Devops

- Google Cloud Platform (GCP) & Docker
- CI/CD Pipeline Optimization
- Linux System Management

Writing

- Technical Documentation & Knowledge Base Architecture
- Speculative Fiction & Narrative Design

Education

PhD in Linguistics (Summa Cum Laude)

2013 – 2018

University of Pécs

- Focus on structural analysis and cognitive systems.

Professional Software Engineering Certifications

2019 – 2022

Training 360 / StudiCore / OKTÁV

- Intensive training in Java Backend, Frontend, and Computer Science fundamentals.

BA & MA in Hungarian and History Teaching (with Distinction)

2007 – 2012

University of Pécs

- Dual major program, completed with distinction.

Languages

- Hungarian (Native)
- English (C1 – Certified)
- German (B2 – Passive, needs refresh)

Methodology

- Async-First Remote Collaboration
- Structural Code Analysis (Linguistic Approach)

Interests

- **Speculative Fiction Author:** Exploring complex narrative architectures and futuristic systems. Published internationally.
- **System Design & Architecture:** Applying linguistic structuralism to software patterns and API design.