

Zoltán Humpok

Chief Software Architect & Senior Software Engineer
20+ years of experience in software development



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About me

A self-learner, quick to adapt and with great interpersonal skills, I'm sure I can substantially contribute to any company I'll work in. As a full-stack developer with over two decades of experience, I have a wide range of expertise with various programming languages and technologies. I am proficient in Golang, NodeJS, Ruby on Rails and Java. I have used them in multiple projects throughout my career. My work has involved the financial industry, e-commerce, digital security, blockchains, media, SaaS platforms, and I am well-versed in using cloud providers such as AWS, Azure Cloud, Oracle Cloud, Scaleway, Hetzner, DigitalOcean.

Additionally, I have experience with Docker containers and the Hashi stack (Terraform, Nomad, Consul).

I am also experienced in building CI/CD pipelines with my self hosted GitLab instance as well. So as a software developer I have a strong focus on operations as well.

Certifications (including but not limited to)

AWS Certified Solutions Architect - Associate

OCI Oracle Cloud Infrastructure Foundations 2021 Certified Associate

Ardan Labs Ultimate Go

LABA IT Project Management

Udemy Software Architecture & Design of Modern Large Scale Systems

More certs: <https://tinyurl.com/zh-certifications>

Skills

Golang, JavaScript, Node JS, Ruby on Rails, Java, Angular, TypeScript, ReactJS, VueJS, AWS, Azure, OCI, Hetzner, GitLab, CI/CD pipelines, Docker, Terraform, JIRA, Confluence, Project Management, Linux, MongoDB, PostgreSQL, MySQL, REDIS, k6, Kubernetes, CockroachDB, Grafana, Nomad, Infrastructure as code, FOREX, ELK and EFK stack,

Soft Skills

Solution architecting, Team leadership, Mentoring, Teaching, Agile methodologies and tools like JIRA, Project Management, Problem solving, Broad vision in the field of software development, Analytical and problem-solving skills

Languages

Hungarian: native

English: fluent spoken and written (technical documentation as well)

Employment history

Chief Software Architect

2023/06-_____ *Dorsum Zrt. (dorsum.eu)*

General: As the chief software architect I am responsible for keeping up to date the architecture decision reasoning (ADR) documents and discussing technical problems with all the architects within Dorsum. I held separate architect forums for the three major product lines weekly. I am tracking the actions/tasks related to the ADR. I am responsible for the DBA Team and DevOps Team as well.

Project: Clavis NXT

Stack: Java, React JS, OracleDB, OCI, Openshift

Clavis NXT is a microservice based securities account management software solution. It is modular and flexible enough to adapt to the client's needs. It's used by several major banks. It's influenced by OTP as the first client of the platform and as a joint development partner.

Tasks:

- Take care of the microservice principles
- Resolve circular dependencies between services
- Create automated testing suites

Project: Wealth Management Portal

Stack: Java, Angular, ReactJS, OracleDB, MS SQL

WMP is used by international clients as well as Hungarian financial institutions.

Tasks:

- Make it possible to to sell it as Saas version as well,
- Drive the containerization process.
- Create the distributed logging, application monitoring stack template (EFK)
- Transition frontend code base from JavaScript to TypeScript
- Create automated testing suites

Project: MÁK

Stack: Java, React JS, OracleDB, IBM Z

It is a special use case of the clavis platform at Hungarian State Treasury, a multi-layer backend application running on IBM Z platform. Separated business logic and API with caching layer for web and mobile clients.

Tasks:

- Create a performance testing suite.
- Monitor software performance on the new cluster
- Come up with new performance optimization possibilities
- Check fault manager reports
- Predict and prevent future failures backed by data

Software Architect

2023/01-2023/06 *DMG MORI HEITEC Digital Kft.*

Project: CelosX

Stack: Golang, ReactJS, PostgreSQL, Azure Cloud

It is a modern machine management platform with lots of individual core and optional applications for heavy industrial milling machines. An Android-like digital platform for DMG MORI multi axis machines.

Using Azure's EDGE computing platform it's an edge container platform with 30+ containers running on 1300+ machines at several hundred factories

Tasks:

- Communicate architecture decisions with hungarian colleagues
- Make architecture decisions with the other three Architect
- Documenting software architecture and decisions
- Help my two associated teams with technical decisions and best practices.
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Senior Software Engineer / Head of Software Development

2021/06-2023/01 *Mobilredfox Kft.*

Project: Mobilfox.com

Stack: Golang, Angular, PostgreSQL, AWS

Mobildox sells numerous custom phone cases, most of them manufactured locally. It is a custom e-commerce platform, including production control and inventory management, built using Angular and Golang

Tasks:

- Turning business needs into actionable tasks
- Mentoring and overseeing a team of five developers
- Reviewing code
- Managing frontend releases
- Introducing three new product lines
- Redesigning the entire website
- Involvement in the development of frontend and backend of the website
- Full development and supervision of redesigned website
- Deployment on Amazon ECS for scalability
- Creating an automated testing pipeline

Senior Software Engineer

2018/09-2021/06 *LogMeIn Kft.* | *Genesys Cloud Services Hungary Kft.*

Project: Bold360AI

Stack: Java, Vanilla JS, NodeJS, Redis, MSSQL, AWS, OnPrem, Terraform, k6

Our company underwent a significant change, resulting in a restructuring of our team. We were assigned to work on a project called Bold360AI, which is an enterprise-level AI-powered chat support system used by well-known companies.

Tasks:

- Expanding the capabilities by connecting more messaging channels as independent services.
- Separating services that can run independently from the monolith.
- Solving cross domain session handling issues.
- Create a complete system wide load testing suite to measure performance limits and limiting factors.
- I was a member of the architecture board, so discussing technical issues with both technical and non-technical stakeholders
- Serving as a security champion for the company by considering security concerns in new features and bugs, and participating in regular biweekly meetings and training with the entire security board.

Learnings:

- How to deal with vanilla JavaScript widgets
- How deal with and analyze old JAVA monolith
- How to utilize ECS cluster and tasks for load testing with k6
- Teamwork with colleagues in 3 different time zones

Project: IT Ticketing System upgrade

Stack: Ruby On Rails, MySQL, ElasticSearch, AWS, Jenkins

Our first task as a team of three experienced Ruby on Rails developers was to update an outdated IT ticketing system. The upgrade process was complicated by the system's non-standard use of ActiveRecord ID handling.

Tasks:

- Upgrade ruby on rails application form v3
- Upgrade elasticsearch
- Mentor junior developers for RoR development
- Increase test coverage

Project: Hackathon 2018

Stack: AWS serverless only, DynamoDB, Cognito, Lambda, API Gateway.

We created a serverless website for a secret storage service using zero knowledge tech. Despite being outnumbered by the LastPass team, which had 20+ members, we were able to successfully achieve a shared third place in the competition.

Tasks:

- Architect and code a secure serverless website in 2 days
- Use AWS services only
- Lead the team of 3 developers one UX/UI designer

Project: NonIT Ticketing System

Stack: ReactJS, NodeJS, PostgreSQL, AWS, Docker

A greenfield project with a small group of developers to build it quickly but in a sustainable way. We were able to complete the first version of the product in two months and integrate it with other company products. The final product was fast and well-designed.

Tasks:

- Creating P.O.C.-s for the project using different javascript libraries
- Generating code where it is possible to shorten development time
- Utilize Docker for development and deployment

Learnings:

- Software architecture patterns

Senior Software Engineer

2018/06-2018/09 *Dealogic Hungary Kft.*

Project: Financial Services Voting

Stack: Ruby On Rails, BackboneJS, Sidekiq, FactoryGirl, Heroku, CircleCI

At Dealogic, we developed a financial services rating/voting system that is utilized by various organizations such as banks, institutional investors, hedge funds, and insurance companies. We had a skilled team that placed a strong emphasis on precision and quality in our work.

Tasks:

- full-stack development
- pair programming with english speaking teammates
- create testable code and tests, unit test and integration tests as well
- offload long running computational jobs to a background job runner
- creating and updating complex forms

Learnings:

- Debug and fix long running complex background jobs

Senior Software Engineer / Software Architect

2017/12-2018/06 *Sikoba Ltd.*

Project: Custom Blockchain engine for IOU app

Stack: Ruby On Rails, ReactJS, Golang, Blockchain

I developed a proof-of-concept for an IOU system that utilized a blockchain engine. As the project progressed, it became clear that no existing engine met our needs, so we decided to create a new one. We traveled to various meetups across Europe as speakers, to present our solution.

Tasks:

- architect a new blockchain engine to fulfill requirements
- create P.O.C. application for testing and demonstration purposes
- understand consensus protocols and create an optimal version

Learnings:

- presenting technical details on meetups

Senior Software Engineer

2015/06-2017/12 *Konstruktor Online Kft.*

Project: Bubbles.hu

Stack: Ruby On Rails, Golang, Angular, ReactJS, AWS, PubNub

I worked on the Bubbles project, an automatic laundry system that has more than 50 shops in the county. Each shop has washing machines and dryers, which are controlled from a local server with a touchscreen and payment options such as card or cash, as well as an internal balance for registered users.

Tasks:

- full-stack development
- scale up the system from 6 to 40 shops
- add a service application with real time capabilities not just monitoring but controlling the shops remotely from a mobile optimized React app.
- create downloadable financial statistics from the system events
- teach, mentor junior developers

Learnings:

- how to deal with specialized hardware components

Project: Melodiak.hu

Stack: Ruby On Rails, ReactJS, AWS, ElasticSearch

It is the largest student work platform in the country, involving over five student organizations. The website has a robust admin site that is utilized daily by over 100 administrators.

Tasks:

- migrate half a million user profile data
- make an easy to use administrative form
- automated TAX form generation from work log
- create gamification microsite with skill tracking and job matching
- set up fast search capabilities with elasticsearch

Learnings:

- I have learned the importance of gathering feedback from real users

Education

2000 - 2006 Technical University of Budapest - BME

1995 - 2000 Vajda János High School Keszthely - Special Math Class

Hobbies

Cars, Cards, Code...

I have two RS Renault I like to drive and fix, upgrade as a mechanic if needed.

I like to play poker and I have a Texas Hold'Em Tournament Dealer diploma, but of course I know all the popular versions of poker games like Omaha or Crazy as well. (I do not play online)

I like to code to try out my ideas. Experiment with new technologies currently ZIG.

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Ask for more