

# HEGEDŰS LÁSZLÓ

Software Entrepreneur

## Contact information

Kiskunfélegyháza, Hungary

+36706241010

[laszlo.hegedus@cherubits.hu](mailto:laszlo.hegedus@cherubits.hu)

[linkedin.com/in/lordoftheflies](https://www.linkedin.com/in/lordoftheflies)

[github.com/lordoftheflies](https://github.com/lordoftheflies)

[www.cherubits.hu](http://www.cherubits.hu)



## Summary

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I started at Sagax with frontends for embedded measurements systems. In daily work, real-time visualization was a challenge, but we reached full-HD quality.

I worked as a full-stack developer for years in Clarmont, where we developed enterprise level information systems. Clarmont is a supplier of some big Hungarian company, so I could improve myself in many ways of teamwork collaboration (SCRUM, kanban, etc.), alongside for the small business customers my responsibility was to develop proof of concepts of my own, later with my own team.

In some university projects I learned from large-scale computing systems, and data analytics. This experience is exploited in GE Lighting's Innovation team, where architect and develop IoT lighting systems. The first part was to architect and standardize a solution, after that connect with the hardware and evaluate it. There I learned a lot from test automation. In the GE I need to be a part of the embedded software development, so I'm familiar with SBC and microcontroller programming.

At the end of 2015 I promoted myself to a contractor, and started searching for project based jobs.

I wanna build up a venture based on proficiency and efficiency to make a better future. So I had created my processes, and environmental background. My group improved and automate our processes to work in extremely uncertain conditions. To build up this organization we used lean startup management strategy.

In 2016 I started a CMS system development for MLM, and started to research progressive web application based mobile clients, because then I haven't got the resources to maintain mobile

clients to every platform. After the CMS system my group started to develop a data warehouse with BI for physical measurements and analytics.

In 2017 I'm working for JacTravel as a devops engineer and senior java developer, where I could exploit my experiences with large-scale distributed systems.

After JacTravel I founded my private company, where I mastered the art of producing high-quality code with optimized engineering solutions, and besides development, I'm working as a DevOps consultant or Tech Lead, but once upon a time I was an architect at Lufthansa Systems.

In 2018 I went back to Sagax to help implement one of my earlier architect products.

Simultantly I started my business to make DevOps services and SDLC life cycle available for my clients and help their teams to use the time efficiently.

Nowadays I'm a professional freelancer for hire.

PS.: If you are not familiar with the terms process-oriented, then I'm NOT your tech-lead. And yes, I'm working from remote, on-site jobs, business traveling or relocation comes with the extra fee, based on the observation: most of the cases when the customer insist on-site working is based on lack of trust or the fact about the company, but if no one is willing to innovate then we never reach CI/CD.

## Experience

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### Software Entrepreneur



#### [Cherubits Sole Proprietorship](#)

2018.March - Present  
Budapest, Hungary

Cherubits is a virtual organization for my freelance work. I designed, implemented these systems on my own.

### HVAC PORTING #1

#### Summary

Some USA companies control the environment of their factory with HVAC systems (Heating, ventilation, and air conditioning), but their implementation is based on a .NET 2.0 on Windows XP.

My job was to port the system to .NET 4.0, change the hardware layer to use modern industry grade controlling hardware, and re-think the UI.

#### Technologies

Polymer, .NET 4.0, ASP.NET MVC 4, Microsoft SQL Server, CAN, WCF

#### Responsibilities

- Requirements analysis
- Project management
- Architecture design
- Implement solutions in BDD
- Product development

## CUSTOM CMS SYSTEM #1

#### Summary

I have to make a CMS system optimized on-mobile and web appearance. The goal was to make a social environment for MLM based trading company workers. The other requirement was ease-of-access, because the re-sellers are mostly seniors.

#### Technologies

Python, Django, Django-CMS, Polymer, Android, Windows Phone, iOS, PostgreSQL, REST

#### Responsibilities

- Requirements analysis
- Project management
- Architecture design
- Implement solutions in BDD
- Product development

## CUSTOM MAGENTO WEBSHOP #1

#### Summary

I had to make a webshop based on Magento e-Commerce platform. The system has to create sub-webshops which need to be easy to use for resellers, to customize the online appearance.

#### Technologies

PHP 7, Magento, HTML5, Knockout, jQuery, MySQL

#### Responsibilities

- sitebuilding
- Magento and 3rd party integrations

- Payment method implementation

## CUSTOMIZED CRM FOR BOOKKEEPING

### Summary

My bookkeeper reached me out with an automatization problem, more precise, the data administration colleagues not met their price value for money, and with the missing HER colleagues, our expectation is that: a management software, if not help with the reliability then at least should be easily automated and capable intense batch processing. At least I could be an accountant.

*The product variant of this CRM systems downloadable from my web-portal.*

## Lead Java Developer



[Mindspire Consulting Co.](#)

2019.October - 2020.February  
Budapest, Hungary

### Summary

I have to join a database migration product development project, which exists with the promise of migrating databases user friendly. However a database is not the most complex animal, but the strange coalesce between the business-operation-analyst teams made this project challenging. I joined to the team as lead developer, and till I could managed the return of the transactions, the project become less risky, the team decreased to 2 person, the client finally got his delivery, so in real the team no need other lead then the business has to support, especially an overpaid lead programmer.

### Technologies

KVM, LibVirt, QEMU, Oracle, Capsule, J2EE, Spring

## Software Engineer



[Soft-Advise LTD.](#)

2019.April - Present  
Budapest, Hungary

The Soft-Advise is a newly formed company with a lot of expertise and patience, as well as the people. I always enjoyed the time we spent together. The real power of Soft-Advise LTD. based on the environment. If I needed some loneliness, or worked late, the whole team handled it flexibly.

Nowadays against coding, which is necessary engineer skill, fastidiously is only fashion. I haven't seen such a great team in a long time.

## BLOCKCHAIN

2019.September - 2019.January

### Summary

We won a competition, where some enterprise pension management software needed to design. The speciality of these projects was blockchain technology. But I think blockchain is working in any project like that: you have a secure, decentralized network, which needs supervision or mining. So in any blockchain project, the most hard issue is whether the team understands the possibilities given by the technology. The Form follows function is an old commonplace but still stands.

### Technologies

VueJS, React, Python, Flask, J2EE, HyperLedger, Fabric, CouchDB

## INTRODUCING CI/CD

2019.June - 2020.January

### Summary

In summer, suffering under the weight of our current frameworks, we started to introduce and revise our inner processes, because we saw that: next time, we might not have the strength or the will. So we automated all possible parts of our pipeline:

- continuous integration
- continuous inspection
- continuous delivery
- support bots & triage
- clean coding
- bdd
- conventional commits
- concurrent DevOps

### Technologies

GitLab CE (all-in-one), Nexus, Sonar, Docker, Vagrant, KVM, LibVirt, Virtualbox, mail service, RocketChat, Mattermost, Python, Ansible, CentOS, Ubuntu, ArchLinux, FreeIPA, Kerberos

## Software Entrepreneur



[DotSub LLC.](#)

2019.April - 2019.June

London, England

After my first projects at Soft-Advise outsourced me to DotSub.

### Summary

Development of AWS microservices, ASR integration with a professional multinational team. The project was an AWS service which translates vocal communication to caption. My responsibility was to design and implement the communication channel, then make the automatic speech-recognition and translation.

### Technologies

J2EE, Spring, H2, Python, Boto3, IAM, S3, Transcribe, Docker, Travis, AWS, Redux, React, Gulp, Gradle, ngrok

### Responsibilities

- Design and develop the features above.



## Software Architect

[Lufthansa Systems Hungary LTD.](#)

2018.December - 2019.April  
Budapest, Hungary

### Summary

There was a lot of financial and bookkeeping microservice, with the first Netflix microservice stack, and I had the responsibility to supervise and help the team: first we needed to reach a satisfactory software quality, then we built up a development process which capable of continuous integration/inspection/delivery.

### Technologies

Grafana, Prometheus, Oracle DB, Java, Spring, Zuul, Hystrix, Eureka, Nebula, Ribbon, Governor, Docker, Photon, Ansible, Vector, Falcor.

### Responsibilities

- Design components Netflix platform based L3 level cache and computing grid
- Create proof of concepts.

## DevOps Consultant and Senior Java Developer



## [Eisys LTD.](#)

2018.September - 2019.February

Budapest, Hungary

### Summary

The Eisys asked me to design and introduce modern SDLC processes which suit their distributed systems platform developments, and use BDD development in one of their teams. First we learned testing, then use CI and CD on a daily basis, after that we refactored legacy codes to be reliable, maintainable and testable.

### Technologies

Apache CDH, Spark, Kaffka, Cassandra, Spring, Hibernate, Mockito, JUnit, JBehave, Linux, SonarQube, Jenkins, Nexus, Ansible, FreelPA, Gitlab CE, Oracle DBMS

### Responsibilities

- Make legacy projects testable and maintainable
- Write units and integration tests for legacy code
- Design and introduce the company continuous-integration/inspection/delivery processes
- Educate colleagues for BDD and Agile methodology
- Improve code quality

## Senior Software Engineer



## [Sagax Communications](#)

2017.December - 2018.December

Budapest, Hungary

### Summary

In this project we are developing an autonome measurement station. The system automates measurements with SCPI instruments to analyze electromagnetic waves.

### Main features:

- Real-time remote monitoring
- Remote controlling
- Storing measured data
- Storing measurement configurations
- Execute scheduled measurements
- Export a partial measurement

## Technologies

Python, Flask, SQLAlchemy, SocketIO, PostgreSQL, jQuery, PyVISA, GPIB, Linux

## Responsibilities

- Review and fix legacy code
- Design and develop the features above.

## Senior Software Engineer



[TheOutsourcePro](#)

2017.February - 2018.October  
Budapest, Hungary

## Summary

Firstly I was outsourced to JacTravel.

Secondly I had to design and develop a web-scraping automation system. Technologies Python, Django, PostgreSQL, Scrapy, Splash, Docker, Jupyter Notebook, Polymer, Ansible, Jenkins, Sonar, Nexus

## Responsibilities

- Consulting with BAs System architecture
- Manage CI and CD
- Making the implementation and maintain a demonstration server

## Senior Java Developer



[QLM Logistics Solutions](#)

2017.November - 2018.February  
Budapest, Hungary

## Summary

At QLM I was a part of a great team. QLM designing and developing warehouse IT systems, and I got involved in SAP integration with XML web services. At QLM I learned much about quality documentation and minimal on- demand administration.

## Technologies

Spring Boot, Java EE, KnockoutJS, RequireJS, RESTful web services, XML web services, SOAP UI, Tomcat, JAX-RS, JAX-WS, Apache CXF, Redmine, Gradle

## Senior Java Developer



[JacTravel INC.](#)

2017.February - 2017.December  
Budapest, Hungary

### Summary

We are developing an in-memory computing data grid system to integrate local customer data in the JacTravel B2B services.

### Technologies

Apache Ignite, GridGain In-Memory Computing Platform, Spring Boot, Cassandra, Ansible, Mockito, JUnit, Microsoft SQL Server, Windows, AWS, TeamCity, JIRA, Gradle

### My responsibilities:

- Designing and developing features
- Optimization for performance
- Automated testing as BDD says

## Software Engineer



[Sagax Communications LTD.](#)

2016.November - 2017.July  
Budapest, Hungary

### Summary

We developed a measurement system for radio and microwave quality insurance. Main features of this system were to handle SCPI devices, collect data to an autonom field computer, and make real-time visualization from them. For the specified parameters operator notified about the measured environmental events. I was a lead developer in a small team, my responsibilities were architect and development of the system. The challenge was the testability of our measurement techniques.

## Technologies

Python, Django, Celery, ASGi, WSGi, Ubuntu Linux, RabbitMQ, PostgreSQL, PyVISA, GPIB, Github

## Software Tester Technician



### [Current, powered by GE](#)

2015.April - 2016.August  
Budapest, Hungary

## Summary

Evaluating and testing building automation systems.

Developing and maintaining smart infrastructure software systems for research purposes.

## Technologies

Windows, Linux, Raspbian, Python, J2EE, Cloud foundry, Predix, J2EE, Spring, Hibernate, Apache CXF, RabbitMQ, Druid IO, Socket IO, Bamboo, JIRA, Confluence, Bitbucket, Modbus TCP, BACNET, Maven

## Java Developer Intern



### [GE Lighting](#)

2014.September - 2015.April  
Budapest, Hungary

## Summary

Data warehouse building, system developing with analytics and visualization for IoT intelligent lighting systems. Low level building automation nodes for Raspberry PI.

## Technologies

Windows, Linux, Raspbian, Python, J2EE, Cloud foundry, Predix, J2EE, Spring, Hibernate, Apache CXF, RabbitMQ, Druid IO, Socket IO, Bamboo, JIRA, Confluence, Bitbucket, Modbus TCP, BACNET, OSGi, Maven

## Full-Stack Developer (Java & .NET)



### [Clarmont Information Services LTD.](#)

2012.September - 2014.September  
Budapest, Hungary

#### Summary

Worked on lot of different large scale IT projects with different technologies and projects:

- Big database,
- Data gathering or distribution,
- Transactional Systems
- Controlling Enterprise level application development
- Mobile Development
- BPMN based workflow systems

#### Technologies

NET 3.5, ASP.NET, ASP MVC, WCF, Entity framework, Windows Server, Microsoft SQL Server, Microsoft office, J2EE, JPA, JAX-WS, JAX-RS, Spring boot, Eclipselink, Hibernate, Jcf, Blocket, Ozone, Mongo, PostgreSQL, MySQL, AngularJS, Angular, Knockout, Wicket, HTML5, CSS, Less, SASS, of 8 Javascript, ExtJS, D3, Eclipse, Netbeans, DotCMS, JBoss AS, Websphere AS, Jasper reports, JBPM, Linux, Wicket, Maven, JSF, JSP

## Java Developer



### [Flextronics](#)

2012.February - 2012.July  
Budapest, Hungary

#### Summary

Developing a tool for BPMN based enterprise level process management. In Flextronics the IT's main objective is the support of the production., so the allocation tool have to easy-to-use, and ensure the consistent moving of resources through the production queues.

#### Technologies

JBoss AS, J2EE, JPA, Microsoft SQL Server, Jasper, JBPM

## Responsibilities

- Communicate with the on-site crew to discover use-cases of the allocation tool
- Implement the system's backend and frontend.

## .Net Developer



### [Sagax Communications](#)

2011.June - 2012.January

Budapest, Hungary

## Summary

Frontend development for an eavesdropping system.

## Technologies

Windows,. NET, ADO.NET, WPF, WCF

## Responsibilities:

- Frontend development
- Visualizing large dataset
- Verify collected and visualized data

## Education

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### B.Ap.Sc

### [Budapest University of Technology and Economics](#)

2006 - 2019

Budapest, Hungary

Project lab with automated unit testing frameworks in FTSRG. Project lab with Druid large-scale computing system. Specialized for computer graphics and image processing.

## Graduation



### [SZTE SÁGVÁRI ENDRE High School](#)

2002 - 2006

Budapest, Hungary

I specialized in physics and mathematics.

## Language Skills

- English: Limited working proficiency
- German: Elementary proficiency
- Hungarian: Native or bilingual proficiency

## Other skills

- Research
- Data modeling
- Design thinking
- Collaborative problem solving
- Teamwork
- Data analysis