



**NAGY KÁROLY GÁBRIEL**  
**Go Software Engineer**  
**Linux System Developer**

**Personal Information**

**Surnames / Given names**

**Address**

**Telephone**

**E-mail**

**GitHub:**

**Linkedin:**

**Nationality**

**Birth date and place**

**TimeZone**

**NAGY KÁROLY GÁBRIEL**

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County, Romania**

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<https://github.com/karasz>

<https://www.linkedin.com/in/karasz>

**Hungarian**

**November 4, 1974, Oradea, Romania**

**EET**

**Professional Summary**

Experience in design, development, testing, maintenance and documentation of Enterprise applications in Golang.

Proficient building REST API's, Web Applications and microservices in Golang.

Good experience with Golang drivers to perform operations such as CRUD operations and writing complex queries with PostgreSQL and MongoDB.

Hands on experience with version control tools such as SVN and Git. Experience with container-based deployments using Docker, working with Docker images and Kubernetes. Proficient in writing SQL, PL/SQL stored procedures, packages, functions, triggers, views and materialized views.

Experience in Data Migration Projects which uses SQL Loader, PL/SQL programming, coding procedures, triggers and functions.

Proven ability to manage, analyze, identify and solve problems to consistently attribute to increased customer satisfaction and productivity.

Expertise in SQL Query Tuning Techniques by using EXPLAIN\_PLAN.

15 years of System Developer (Linux Engineer), with assorted experience in creating and maintaining tailored, Linux based, operating systems for servers.

System and Network Administrator, specialized in free operating systems and open standards.

15 years of experience in open source communities, and over 20 in developing software as a business.

Specialized in developing and implementing enterprise business applications.

Good in troubleshooting software, hardware and network issues.

Able to provide creative solutions.

Good in leading technical teams, and experienced in adapting to new environments, situations and practices.

## Work experience

### **MSCI Inc.-Senior Associate, IT Infrastructure Engineering**

May 2019 – Present

Platform management related tasks, 3rd level support and engineer on Forcepoint based proxy appliances and Postfix SMTP servers. Developing management scripts using PowerShell and Bash.

### **JPI Technologies - Principal Software Engineer**

Sep 2015 – Present

Design a hybrid cloud solution based on containerization (kubernetes and others) and standard Linux services (Wireguard, Postfix, Dovecot, Nginx, Caddy, PostgreSQL) and AWS (AliCloud). Designing a connection and management layer in Go (Golang)

- Core Backed Developer (Go)
  - systems programming
  - solutions programming
- Infrastructure management
  - virtualization (Kubernetes, Docker, Linux-Vserver, KVM)
  - databases (PostgreSQL, LDAP)
  - web servers (Nginx)
  - reverse proxies (PGBouncer, Nginx, HAProxy)
- **Responsibilities:** Creating and managing the systems required for the hosted versions of the products including but not limited to (DNS, Storage, Web and Version Control (Git))

### **Expert Software Sdn. Bhd. - Lead Software Development Engineer**

Jun 2007 – Sep 2015

- Core Backed Developer (Visual Basic, PostgreSQL)
- Building tailored Linux servers
- Infrastructure management:
  - virtualization (Linux-Vserver)
  - email (Qmail)
  - databases (PostgreSQL, LDAP)
  - web servers (Nginx)
  - reverse proxies (PGBouncer, Nginx, HAProxy)

## **Expert Software - Lead Software Development Engineer**

Sep 2000 – Sep 2015

While at Expert Software I managed the transition of the main application from a Microsoft Access 2 back-end to a PostgreSQL one. Designed and implemented the safe access of the clients to the back-end using a home brew SSH tunnel solution based on the SSH component provided by We Only Do. Designed and managed the application back-end including but not limited to: database connection proxying, active-passive database clustering using a home brew solution based on PostgreSQL replication and Shell; database backups using standard Linux tools and PostgreSQL dump commands. Designed, implemented and maintained the needed infrastructure for the company operations (custom Operating Systems, email services, web services)

- Core Backed Developer (Visual Basic, PostgreSQL)
- Building tailored Linux servers
- Infrastructure management
  - virtualization (Linux-Vserver)
  - email (Qmail)
  - databases (PostgreSQL, LDAP)
  - web servers (Nginx)
  - reverse proxies (PGBouncer, Nginx, HAProxy)
- **Responsibilities:** Creating and managing the required infrastructure and backend for a hosted ERP solution with more than one hundred customers. Managing the company infrastructure (email, web presence) using bare servers rented from Hetzner. Creating the tools required and managing the database infrastructure for the hosted ERP solution using bare servers from Hetzner.

## **Ro & Co Soft Srl - Software Engineer**

Sep 1995 – Aug 2000

- Core Team Leader, Linux Consulting.
- Solutions programming in Visual Basic and Access.
- Linux Systems Administrator.

## **F.F.N. Import-Export - System Administrator**

May 1993 – Sep 1995

- Administering the servers, workstations and network.

## **Voluntary experience/Project**

**2006-present**

**OpenSDE**, System development framework. OpenSDE is a tool that makes creating customized Operating Systems easy. OpenSDE consists of configuration tools, a build tool-chain and a package database.

**Responsibilities:** Developer, infrastructure management

## **Education and training**

<b>2021/06</b>	Automating Administration with Windows PowerShell
<b>2021/05</b>	Infoblox DDI Professional
<b>2021-</b>	Kubernetes Fundamentals (LFS258) in progress
<b>2021-</b>	Kubernetes Security Essentials (LFS260) in progress
<b>2020/10</b>	AZ104 Microsoft Azure Administrator
<b>2018/08</b>	AWS Certified Solutions Architect - Associate Validation Number K7GQSRMKCJB41SGG
<b>2018/06</b>	Master of Information Technology
<b>2016-2018</b>	Faculty of Science, University of Oradea Profile: Information Technology, Master: Internet Distributed Systems
<b>1998/09</b>	Bachelor of Economy
<b>1994-1998</b>	Faculty of Economics, University of Oradea Profile: Economy, Major: Tourism and Services
<b>1993</b>	Faculty of Economics, University of Oradea Profile: Economy, Major: Economic Computer Science

## Personal skills and competences

<b>Other languages</b>	<b>English</b>	Professional working proficiency
	<b>Romanian</b>	Native or bilingual proficiency
	<b>Hungarian</b>	Native or bilingual proficiency
	<b>Italian</b>	Limited working proficiency
	<b>French</b>	Elementary proficiency

### **Social skills and competences**

Good teamwork skills acquired both at university and at open source projects. Quick adaptation to new environments, practices and customs.

### **Technical skills and competences**

Good knowledge of configuration management gained by pushing these “best practices” in open source projects. Active interest in the rigorous and secure applying of new technologies.

**Computer skills  
and competences**

Extensive and deep knowledge of open source software, and how to integrate it properly, gained in 15 years of creating tailored operating systems for servers.

High experience developing software for productive systems in different programming languages and technologies.

Always focused on creating simple, maintainable, reliable, secure and scalable solutions that observe quality and adherence to standards.

Always very interested and motivated in learning new methodologies that allow better development cycles, and learning about new trends in software development and design.

**Programming:** Go (Golang)  
FoxPro, dBASE IV  
Visual Basic 3-6  
make, autotools, and other building systems  
Python  
Bash  
HTML, CSS

**Database:** MS Access  
PostgreSQL  
MySQL  
NoSQL - MongoDB

**Operating systems:** Linux (Ubuntu, CentOS etc.)

**Server virtualization/container:** Docker, Linux-Vserver, Kubernetes

**Cloud Providers:** Amazon Web Services

**Web servers:** Nginx, Caddy, Apache

**Monitoring tools:** Nagios, Cacti, Zabbix, collectd

**Security tools:** Forcepoint Triton

**Editing:** LibreOffice, LaTeX

**Network:** ARP, TCP/IP, HTTP, SSL/TLS

**MS Applications:** Word, Excel, PowerPoint, Publisher

**Others:** Linux software RAID