

Mobile: +374 91 406 822

E-mail: [golz.alyona@gmail.com](mailto:golz.alyona@gmail.com)

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

website: [agolz.github.io/by\\_me](https://agolz.github.io/by_me)

# Alyona Golz

Place of residence: Armenia, Yerevan.

---

## Personal Profile Statement

Dedicated and results-driven professional with a rich background spanning 12 years in B2C, B2B, and B2G customer service, offering expertise across diverse products and services. My journey reflects a commitment to excellence, from navigating various roles to undertaking a transformative experience at the "Ecole 42" School of Computer Science.

Driven by a thirst for knowledge, my current focus lies in C, C++, Python and Unix systems, positioning me at the forefront of technological innovation. Notable highlights of my career include:

### **Tech Transformation:**

Seamlessly transitioning into the realm of autonomous drones, I explored the depths of flying robotics and programming, bringing about a transformative shift in my skill set.

### **Ongoing Learning:**

Actively engaging in advanced studies at "Ecole 42," my commitment extends to continuous evolution, particularly in C and Unix systems, ensuring I stay abreast of industry advancements.

### **Specialization in C and Unix Systems:**

Through dedicated studies, I am refining my proficiency in the C programming language and Unix systems. This involves a deep dive into system architecture and command-line operations, bolstering my ability to design robust, scalable, and efficient software solutions.

My proactive approach, coupled with a demonstrated track record of success, positions me as a valuable asset ready to contribute effectively in any dynamic IT environment.

---

## Skills

**Programming Languages:** C, C++, and Python. Extensive hands-on experience in implementing algorithms and data structures.

**Software Development:** In-depth knowledge of software development methodologies. Proven ability to develop and deploy applications, including autonomous systems and unmanned aerial vehicles (UAVs).

**Technical Expertise:** Solid understanding of Unix systems, system architecture, and command-line operations. Experience in virtualization, circuitry, and computer architecture.

**Additional Technologies:** Skilled in Arduino and Raspberry Pi for hardware development. Proficient in Git for version control. Experience with database management using MySQL and PostgreSQL.

**Cloud Computing:** Familiarity with AWS EC2 for cloud computing infrastructure.

**Project Management:** Successful track record in managing projects from inception to completion.

**Communication:** Effective communication skills honed through corporate client attraction roles.

Experience in engaging with clients, understanding their needs, and providing tailored solutions.

**Adaptability:** Demonstrated adaptability through a diverse skill set ranging from programming languages to system administration. Continual learning and expansion of skills in C++, Python, Go, and other programming languages.

---

## Projects

### Python Telegram Bot Project (2020)

#### Description:

In 2020, I completed an advanced Python course and subsequently developed an interactive Telegram bot. This versatile bot executed various commands, showcasing language recognition capabilities in both Russian and English. It provided comprehensive instructions for assembling quadcopters, supplemented by relevant GitBook links. The project utilized the pyTelegramBotAPI library, was hosted on Heroku, and employed MySQL 5.7 for robust data storage.

#### Tools and Technologies:

- pyTelegramBotAPI: Telegram bot functionality.
- Heroku: Platform for deployment.
- MySQL 5.7 and Datagrip: Robust data storage.
- Natural Language Processing (NLP) Libraries: Language recognition.
- GitBook: Assembly instructions documentation.

#### Measurable Achievements:

- Successful integration of multiple technologies.
- 

### Ecole 42 Projects (2020-Present)

#### 1. Libft (C Library)

#### Description:

As part of the Ecole 42 curriculum, I developed an essential C library, serving as the foundation for subsequent projects. The project showcased mastery over C standard library functions, data structures, and algorithms.

#### Tools and Technologies:

- Makefile: Project compilation and organization.
- gcc: Compilation and linking.
- Valgrind: Memory debugging and profiling.
- Doxygen: Automatic documentation generation.

#### Measurable Achievements:

- Demonstrated creativity and depth of understanding in C programming.

- Proficiency in implementing various data structures and algorithms

## 2. ft\_printf

### Description:

This project delved into the intricacies of C programming by implementing a custom printf function, showcasing expertise in variadic functions and string manipulation.

### Tools and Technologies:

- Makefile: Project compilation and organization.
- gcc: Compilation and linking.
- Regular Expressions (RegEx): Pattern matching and string manipulation.
- GDB (GNU Debugger): Debugging and analyzing code execution.

### Measurable Achievements:

- Achieved 100% functionality compliance with the standard printf function.
- Demonstrated a deep understanding of complex algorithms and string formatting.

## 3. Born2beRoot - Server Setup on Rocky Linux

### Description:

Born 2 be Root involved practical server setup using VirtualBox, Anaconda, LVM, LOOKS, fdisk, ssh, sshd, Bash language, WordPress with Lighttpd, MariaDB, and PHP. Comprehensive documentation was provided on GitHub.

### Tools and Technologies:

- VirtualBox: Virtualization and testing.
- Anaconda: Package management and environment setup.
- Lighttpd: Web server for WordPress.
- MariaDB: Relational database management system.
- Bash Scripting: Automation and server configuration.
- Security Tools (Fail2Ban): Server protection.

### Measurable Achievements:

- Contributed to the community knowledge base with a detailed guide.
- Received positive feedback for the clarity and effectiveness of the guide.

## 4. get\_next\_line

### Description:

Addressing the need for versatile file descriptor handling, the get\_next\_line project provided a robust solution for reading lines from various file descriptors.

### Tools and Technologies:

- Makefile: Project compilation and organization.
- gcc: Compilation and linking.
- Memory Leak Detection Tools (Valgrind): Memory efficiency.
- Unit Testing Frameworks (Criterion): Systematic code testing.

### Measurable Achievements:

- Achieved high project scores for efficiency and code structure.

- Proficiency in handling file descriptors and memory allocation.

## 5. push\_swap

### Description:

The push\_swap project showcased algorithmic efficiency with the implementation of an optimal sorting algorithm for integer stacks.

### Tools and Technologies:

- Makefile: Project compilation and organization.
- gcc: Compilation and linking.
- Algorithm Visualization Tools (GraphViz): Illustrating sorting processes.
- Code Profiling Tools (gprof): Analyzing algorithmic performance.

### Measurable Achievements:

- Achieved optimal sorting performance with minimal instructions.
- Received commendations for the algorithmic approach.

## 6. minitalk

### Description:

Minitalk, a minimalistic interprocess communication project utilizing signals, delved into the intricacies of Unix signals and process communication.

### Tools and Technologies:

- Makefile: Project compilation and organization.
- gcc: Compilation and linking.
- Signal Handling Techniques: Implemented for ensuring reliable communication.

### Measurable Achievements:

- Demonstrated a deep understanding of interprocess communication.
- Achieved high project scores for reliability and signal handling.

These projects collectively showcase a diverse skill set, encompassing programming languages, system administration, and creative problem-solving. Each project incorporates an extensive array of tools and technologies, contributing to a rich and impactful learning experience.

The projects mentioned above can be found on my [GitHub](#).

---

## Education

### ["École 42" Institution of Higher Education in Computer Science](#)

Computer Science Training Program

2021 - Present

**Details:** Currently enrolled in a dynamic and future-focused computer science training program at 42 Yerevan, specializing in C and C++. Engaged in hands-on, project-based learning, mastering low-level programming, and honing algorithmic problem-solving skills. Collaborating within diverse teams, gaining practical experience in software development, and contributing to a rich learning environment.

### [Institute of Bioinformatics \(Russia\)](#)

Python Programming Course

2020

**Details:** Successfully completed a Python Programming Course, acquiring practical skills in Python—a versatile language widely used in IT for web development, data science, and automation. Applied theoretical knowledge to real-world scenarios, enhancing problem-solving abilities and critical thinking skills.

### [Volga State University of Telecommunications and Informatics \(Russia\)](#)

Master of Sociology

2005 - 2010

**Details:** Attained a comprehensive education in sociology, fostering critical analysis, research, and effective communication skills. Developed a unique blend of technical and social perspectives, creating a foundation for understanding complex systems. Applied sociological principles to enhance data interpretation skills, contributing to a well-rounded skill set.

---

## Work Experience

### [COEX \(2018 - 2021\)](#)

Position: Customer Service and Quality Control Manager

Description:

1. Managed customer service operations, ensuring high-quality support and satisfaction.
2. Oversaw the implementation of robust quality control measures to meet industry standards.
3. Collaborated with cross-functional teams to optimize product development processes.

### [Beeline Business Russia \(2012 - 2017\)](#)

Position: Corporate Client Attraction, Moscow Region

Description:

1. Played a pivotal role in the Corporate Client Attraction Department, focusing on mobile and fixed communications as well as cloud solutions at Beeline Russia.
2. Developed and executed strategies to attract corporate clients in the Moscow region.
3. Actively engaged with clients, understanding their communication needs, and providing tailored solutions.

## Usoft (2009 - 2011)

Position: Leading Specialist, Sales Lead Manager

### Description:

1. Served as a Leading Specialist at Usoft, specializing in the adaptation, modification, and maintenance of Legal Reference systems.
2. Demonstrated expertise in legal software solutions, ensuring seamless adaptation to clients' requirements.
3. Developed a deep understanding of legal tech, combining technical proficiency with effective sales strategies to meet client expectations and contribute to the company's growth.