

# Lazar Milicevic

Software Engineer



## • Contact

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- [Click to see my portfolio :\)](#)

## • Skills

- **Programming Languages:** Python, JavaScript, SQL
- **Networking:** TCP/IP, Routing, Firewalls, VPNs
- **Cloud Computing:** AWS, Azure, Google Cloud Platform
- **AI and Machine Learning**
- **Automation**
- **Virtualization:** VMware ESX
- **Azure Services:** Azure VMs, Azure Scripts
- **Entrepreneurship**
- **Project Management**
- **Problem-solving**
- **Teamwork**

## • Education

- Bachelor of Science in Computer Engineering | University "Dositej" | Belgrade, Serbia | 240 ECTS |
- | Harvard University | USA | "CS50's Artificial Intelligence with Python"
- "JavaScript Programming Course" | Qubes IT School |
- **Language:** English, Serbian, Croatian

## • Profile

Passionate about programming and DevOps, I blend engineering skills with Python proficiency to optimize software systems. Holding a Bachelor's in IT Engineering from Dositej University and pursuing a Master's in IT Management, I thrive in AI, automation, and machine learning.

Independently, I've developed numerous solutions, enhancing team productivity. With over 10 Python programs running on VMware ESX, I'm adept at Azure VMs and scripts in my role at a prominent corporation. Additionally, I've collaborated with over 50 companies through my own firm, enriching my experience and insights.

Moreover, I have honed my skills while working in large corporations, gaining valuable experience and insights into corporate systems and processes.

For further insights, visit my portfolio. Feel free to contact me for more information. Looking forward to connecting!

## • Work Experience

- Gategroup - IT Workplace L2 Engineer (Feb 2023 – Present)
- Customer Success Management - Senior Information Technology Engineer (Jan 2022 – Jan 2023)
- Smart Electronics Store - Software Engineer (Jan 2022 – Jan 2023)
- LAMING - Chief Executive Officer (Jan 2019 – Jan 2022)
- Maccani luxury hotels - Information Technology Section Manager (Jan 2018 – Dec 2019)
- VWG Inženjering doo - Information Technology Support Engineer (Jan 2017 – Dec 2019)

Hello Team,

Thank you for this opportunity, and for taking your time for reading about me. 😊  
My name is Lazar, I'm 29 years old, and I live in Belgrade, the capital of Serbia.  
In this section, people usually praise themselves and highlight their achievements while concealing or downplaying their weaknesses. Though I appreciate hearing kind words about myself and my accomplishments, I believe that I still have much to learn and plenty of room for growth in the field of Information Technology. 😊

I'll try to keep this brief, so let's start with my experience. Computers and computer technologies have been my passion since I received and broke my first computer back in 2003. That was the beginning of my story and my love for computers.  
However, if we're talking strictly about professional engagement with computers, I have over 11 years of experience in the ever-changing and diverse world of IT.  
I strive to keep up with new technologies not because I have to, but because I enjoy it.  
In this regard, I have extensive experience from previous jobs in Networking, IT Security, Azure, On-prem Active Directory, Virtualization, cloud systems, WordPress, DevOps, and process automation, Python, and similar programming languages.

I enjoy socializing and learning at the same time, doing a job I love. I also take pleasure in sharing my knowledge and experiences, as it always makes me feel good, benefiting both myself and others. I have my own opinions on most things but remain open to the ideas and opinions of others, including my colleagues. I like to lead my own projects, so alongside my job, I always have hobbies related to computer technologies. 😊  
For example, I run a Social Media Marketing Agency, which I've automated using Python, OpenAI API, and many other APIs, creatively solving manual labor problems. This has resulted in an almost fully automated marketing agency.  
Although I don't want to elongate, I'd like to show you some examples of my Python solutions that I've developed and which are active on virtual machines 24/7, as we proceed:

## 1. Marketing Ad copy Generator

After receiving an email about a new order, which contains information on the type of video the client wants to be created, we used to manually send these details to a copywriter to create a sales ad copy.

Now, this process is automated by our program. The program, consisting of over 310 lines of code, utilizes the Gmail API key to access emails. It searches for emails arriving as orders, extracts the product name from the email, and based on the product name, automatically creates an Ad copy using the Open AI API. Then, it composes a new email including the Ad copy and sends it directly to an email address. This email is subsequently monitored by another program that inputs these details into Asana, a collaborative tool from which the editor takes over, continuing the process by creating a video clip for the client.

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```
1 EcomlyAds_Ad_Copy_Generator.py ●
C: > EcomlyAds_Software > EcomlyAds_Ad_Copy_Generator > EcomlyAds_Ad_Copy_Generator.py > ...
1  import base64
2  import re
3  import smtplib
4  import logging
5  import os
6  import threading
7  import time
8  from email.mime.multipart import MIMEMultipart
9  from email.mime.text import MIMEText
10 from googleapiclient.discovery import build
11 from google.oauth2.credentials import Credentials
12 from googleapiclient.errors import HttpError
13 import openai
14 from email.mime.base import MIMEBase
15 from email import encoders
16
17
18 # Postavljanje konfiguracije za logging||
19 logging.basicConfig(filename='logging.txt', level=logging.INFO, format='%(asctime)s - %(levelname)s - %(message)s')
20
21 # Definicija search_query pre nego što se koristi u funkcijama
22 search_query = 'subject:"/HING PRIORITY - TODAY" is:unread'
23
24 # Konfiguracioni podaci za Google API i email slanje
25 client_id = [REDACTED]
26 client_secret = [REDACTED]
27 refresh_token = [REDACTED]
28 sender_email = [REDACTED]
29 smtp_server = [REDACTED]
30 smtp_port = 587
31 gmail_username = [REDACTED]
32 gmail_password = [REDACTED]
33 openai_api_key = [REDACTED]
34
35 def create_gmail_service():
36     creds = Credentials(token=None, refresh_token=refresh_token, token_uri='https://oauth2.googleapis.com/token',
37                         client_id=client_id, client_secret=client_secret)
38     service = build('gmail', 'v1', credentials=creds)
39     logging.info("Gmail service created successfully")
40     print("Gmail service created successfully")
41     return service
42
43 email_queue_path = os.path.join(os.getcwd(), 'email_queue.txt')
44
45 def load_email_queue(file_path):
46     try:
47         with open(file_path, 'r') as file:
48             queue = file.readlines()
49             queue = [email.strip() for email in queue if email.strip()]
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## **Short code description:**

Here's a concise list of actions performed by the program, following the order of execution:

- Configure Logging: Set up logging with a specific filename, logging level, and format.
- Define a search query: Predefine a search query for finding emails with a specific subject.
- Set configuration data for Google API and email sending: Store credentials and configuration details for Google API access and SMTP server settings.
- Create a Gmail service: Authenticate and create a service object for interacting with Gmail.
- Load email queue: Read a list of email IDs from a file, intended for processing.
- Save email queue: Write the current email queue to a file.
- Add to email queue: Append a new email ID to the queue if it's not already present.
- Remove from email queue: Delete an email ID from the queue after processing.
- Search and queue emails: Check Gmail for emails matching the predefined search query and queue them for processing.
- Mark emails as read: Optionally mark emails as read after adding them to the queue.
- Get email details: Retrieve full details of an email, including subject, body (plain and HTML), and extracted text.
- Generate ad copies with GPT-4: Use OpenAI GPT-4 to create ad copies based on extracted text from emails.
- Retrieve email attachments: Download attachments from a specific email.
- Send email with ad copies: Compose and send an email including the original message, generated ad copies, and attachments.
- Periodically search for emails: Continuously check for new emails at a set interval and add them to the queue for processing.
- Process email queue: Continually process emails in the queue, generate ad copies, and send them out.
- Multithreading: Use threading to handle email searching and processing concurrently, keeping the main program active.

## 2. Auto Blog Generation And posting to WordPress

SEO optimization of a website can be very challenging and requires well-written blogs every day that contain relevant keywords, texts, etc. Previously, we paid content writers to write blogs for us, which was expensive, slow, and required a lot of manual work.

Now, based on real trends appearing on Reddit and using the Reddit API, WordPress REST API, OpenAI API, Daily AI API, and some others, I have completely automated the process of generating and uploading blogs to my website. The generated blogs are of top quality, include images, and are fully optimized for the keyword that is currently relevant and for which the website ranks on Google search, bringing in new views daily.

10.200.1.13 - Remote Desktop Connection

File Edit Selection View Go Run Terminal Help

ECONLYADS\_AUTO\_BLOG\_MACHINE X

```
File Explorer ECONLYADS_AUTO_BLOG_MACHINE
```

```
PyCharm ECONLYADS_AUTO_BLOG_MACHINE
```

```
EconlyAds_Auto_Blog_Machine.py
```

```
1 Import os
2 Import pandas as pd
3 Import openpyxl
4 Import datetime
5 Import logging
6 Import requests
7 From io Import BytesIO
8 From docx Import Document
9 From docx.shared Import Inches
10 Import reddit_trends
11 Import keyword_search
12 Import random
13 Import time
14 Import sys
15 From base64 Import b64encode
16
17 # Definisanje putanja do fajlova
18 base_dir = "C:\EconlyAds_Auto_Blog_Machine"
19 themes_file = os.path.join(base_dir, "Program_files", "Teme.csv")
20 processed_blogs_file = os.path.join(base_dir, "Program_files", "Processed_blogs.csv")
21 image_desc_file = os.path.join(base_dir, "Program_files", "Image_description.txt")
22 logging_file = os.path.join(base_dir, "Program_files", "logging.txt")
23 created_blogs_dir = os.path.join(base_dir, "Created_blogs")
24
25
26 # OpenAI API ključ
27 openai_api_key = "REDACTED"
28
29 # Važe WordPress kredencijale treba sigurno čuvati i koristiti
30 wordpress_url = "https://econlyads.com/wp-json/wp/v2/posts"
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
108711 INFO: Building PNG because PNG-00.toc is non existent
108711 INFO: Building PNG (Archive) EconlyAds_Auto_Blog_Machine.png
122155 INFO: Building PNG (Archive) EconlyAds_Auto_Blog_Machine.png completed successfully.
122160 INFO: Bootloader C:\Users\EconlyAds_01\AppData\Local\Programs\Python\Python311\lib\site-packages\PyInstaller\bootloader\Windows-64bit-intel\run.exe
122160 INFO: checking EXE
122160 INFO: Building EXE because EXE-00.toc is non existent
122173 INFO: Building EXE from EXE-00.toc
122174 INFO: Copying bootloader EXE to C:\EconlyAds_Auto_Blog_Machine\dll\EconlyAds_Auto_Blog_Machine.exe
122247 INFO: Copying Icon to EXE
122271 INFO: Copying 0 resources to EXE
122272 INFO: Embedding manifest in EXE
122226 INFO: Appending PKG archive to EXE
121345 INFO: Filling EXE headers
122448 INFO: Building EXE from EXE-00.toc completed successfully.
PS C:\EconlyAds_Auto_Blog_Machine>
* History restored
```

OUTLINE

TIMELINE EconlyAds\_Auto\_Blog\_Machine.py

- File Saved 1 wk
- File Saved
- File Saved 2 hrs
- File Saved
- File Saved

Activate Windows  
Go to Settings to activate Windows.

## Short code description:

Here's a concise overview of the program's actions, following the structure provided for the previous script:

- Define File Paths: Sets paths for various files like themes, processed blogs, image descriptions, and log files.
- Configure OpenAI and WordPress Credentials: Stores API keys and WordPress credentials for accessing services.
- Logging Configuration: Sets up logging to record activities and issues.
- Upload Image to WordPress: Downloads an image from a URL and uploads it to WordPress, setting alt text for the image.
- Publish to WordPress: Creates a new WordPress post with a title, content, featured image, and meta description.
- Generate Keywords: Chooses and generates keywords based on trends from Reddit, using the OpenAI API to create relevant keywords.
- Check for Theme File: Validates the existence of the theme file and whether it contains themes to process.
- Generate Section Content for Blogs: Produces content for different sections of a blog post, using formatting techniques and OpenAI API for content generation.
- Generate FAQ Section: Creates a Frequently Asked Questions section for a blog post, formatting it in HTML.
- Generate Call to Action (CTA): Produces a dynamic call to action encouraging readers to visit a website for professional assistance.
- Generate Meta Description: Creates a concise, SEO-optimized meta description for blog posts.
- Generate Image Alt Text: Produces descriptive, SEO-optimized alt text for images related to the blog theme.
- Generate Blog Post: Orchestrates the process of generating a complete blog post, including title, content, and formatting.
- Generate Image Description: Creates a detailed description for an image related to the blog theme, intended for visual content generation.
- Generate Image: Produces an image based on a description using the OpenAI API.
- Save Blog Post: Saves the generated blog post as a Word document, including title, image, and content.
- Process Themes: Processes each theme to generate and publish a blog post, handling image generation and WordPress publication.
- Limit Processing to 30 Themes: Implements a cap on the number of themes processed in one run to manage workload and ensure quality.
- Error Handling and Logging: Throughout the script, it logs activities and errors, providing feedback on the process and troubleshooting info.
- Script Termination: Concludes the script's execution and logs the completion of tasks, with a system exit to halt the script.

This script is designed to automate content creation and publication processes, leveraging APIs for content and image generation, and managing content workflow efficiently.

Note:

1. These are just examples, and I have many more. Whenever I see something that I can improve or automate, I do it. I love to use my creativity to the fullest in finding solutions for specific problems. 😊
2. The shown examples are written in Python. To make them work 24/7 and be fully automated, using the PyInstaller library, I've converted them into exe files, and with the Autolt scripting tool, I've set them up to run whenever the server is active.
3. All my programs are built from scratch because the problems were specific and I could rarely use even a part of a solution from the internet, for example, GitHub.
4. I use VMWare ESX Host for hosting my machines, which is protected by MikroTik. Everything is within my network. 😊

You can learn more about me from my CV, which contains a lot of relevant information about me.

Also, if you would like to contact me, I would be pleased to show you everything in person.



Once again, thank you very much for the time you've taken for me.

Best Regards,  
Lazar M.

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