



CĂTĂLIN - GABRIEL POPESCU

SOFTWARE DEVELOPER • FLORESTI, CLUJ-NAPOCA, ROMANIA • +40751540992

◦ DETAILS ◦

Floresti, Cluj-Napoca
Romania
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Date / Place of birth

23.08.1992

Iasi, Romania

Nationality

Romanian

Driving license

B

◦ LINKS ◦

[LinkedIn](#)

[Github](#)

◦ SKILLS ◦

Python

C#

IEC 61131-3

RESTful APIs

Django

Flask

AWS Lambda, EC2

Git

◦ LANGUAGES ◦

Romanian

English

German



PROFILE

Crafting reliable and efficient software solutions, especially in real-time and non-real-time systems, is my forte. With a passion for creating robust software architectures and seamless user interfaces, I excel in delivering comprehensive engineering solutions tailored to modern needs.



EMPLOYMENT HISTORY

Software developer at IPTE Germany GmbH, Hybrid, Heroldsberg, Erlangen

November 2018 — December 2023

- Programming new software for PLC driven machines.
- Development of new software upgrades for industrial machines.
- Assist in new technology additions to automated production lines.
- Programming and parameterization of peripheral devices such as robots, vision systems, measuring devices, servo drives and communication buses.

Junior software developer at IPTE Sibiu SRL, Sibiu

July 2016 — October 2018

- Actively engaged in coding Structured Text and Ladder Diagrams.
- Collaborating with senior developers to troubleshoot and debug programs.
- Contribute to logic design, meticulously document code changes
- Participate in testing phases, ensuring adherence to coding standards and continuous learning to enhance programming proficiency.

System engineer at Atexis SRL, Iasi

November 2015 — June 2016

- Development of technical solutions for the latest generation of driver assistance systems and highly automated driving.
- Formulation of system definitions, creation of system requirements, and system design.
- Monitoring development activities, adhering to ISO 26262 and Automotive SPICE processes.
- Close collaboration with colleagues in hardware, software, mechanics, and system testing



EDUCATION

Master, Tehnical university "Gh. Asachi" Iași, Iași

October 2015 — August 2017

- Specialization: Environmental monitoring computer systems
- Design and implementation of an automated air ventilation system with Power Control utilizing Raspberry Pi technology.
- The project involved the integration of sensors to monitor air quality parameters, coupled with Raspberry Pi's capabilities to automate ventilation based on real-time data.
- The system aimed to optimize energy consumption through intelligent power control, contributing to sustainable and efficient indoor air management.



Bachelor, Tehnical university "Gh. Asachi" Iași, Iași

October 2011 — August 2015

- Specialization: Engineering in Instrumentation and data acquisition
- Built a Robotic Arm controlled by a PIC32 microcontroller.
- Designed the hardware and wrote the code to make the arm move precisely. By adding sensors and actuators, I showed how the PIC32 can control complex robotic tasks.



INTERNSHIPS



Python developer at Brainnest, Remote, Bremen

January 2023 — March 2023

- Contributing to the codebase using Python, collaborating on software development tasks, and participating in debugging processes.
- Engaged with frameworks like Django or Flask for web development, databases such as MySQL or PostgreSQL, and version control systems like Git, while also gaining exposure to broader software development practices.



LICENSES/CERTIFICATIONS



AWS Certified Cloud Practitioner CLF-02, Amazon Web Services (AWS)

November 2023 — November 2026

Python Development Industry, Brainnest

January 2023 — March 2023

OPCON Advanced programming with VEP30/L40-S, Bosch

July 2016 — July 2023

Introduction to IEC 61131 with Indralogic-B, Bosch

August 2016 — August 2016

Microsoft .NET: C# training, Strongbytes Iasi, Romania

May 2016 — June 2023



PROJECTS



Python: OpenAI Chatbot

July 2023 — July 2023

Using Django to create a chatbot interface. Integrated OpenAI's API key to facilitate interactions with ChatGPT, enhancing the chatbot's natural language understanding and response capabilities.

Python: Age-based Spotify playlist

July 2023 — July 2023

Developed a python project using Selenium to generate a spotify playlist based on a user's age. The script navigates a public website with Selenium, extracts age-appropriate songs, and dynamically creates a personalized playlist on spotify.

Python: Send email with attachment

September 2022 — October 2022

Automate email sending with attachments using Python, SMTP, and scheduling, leveraging APIs for enhanced functionality. Ensure seamless task execution and timely communication in a cohesive and efficient automation script.