

# Grama Alexandru

## Automation Engineer

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## SUMMARY

A small explorer who accessed Excel's Macro Editor on a remote PC on an island long ago battled the Visual Basic monster and won the great prize of being able to skip homework.

As a committed software engineer, I eagerly await each day when I can be given a fresh challenge. I really enjoy the challenge of developing things that are practical, tangible, and future-proof and I enjoy sharing the experience with those around me. This is how I develop myself through sharing, pushing one another, and eventually moving the team forward. Send me a message so we can discuss whether we can work together to produce something extraordinary or whether we will merely chase some windmills together, in any, way, I would like to hear always one of the million-dollar ideas of tomorrow!

## WORK EXPERIENCE

July 2022-Current

### Automation Engineer

🏢 Ausy  
📍 Bucharest, Romania

Developed and maintained both manual and automated test suites for the entire project, ensuring the highest quality standards and efficient testing processes.

Collaborated with the development team to understand user stories and create comprehensive test scenarios, ensuring proper coverage and validation of software functionality.

Utilized Python, Selenium WebDriver, and PyTest framework to create automated test suites, significantly reducing manual testing efforts and enhancing efficiency.

Conducted thorough testing and debugging of software, identifying and documenting defects and providing detailed reports to the development team for resolution.

Participated in regular team meetings to discuss testing strategies, share best practices, and provide input for process improvement.

Collaborated with cross-functional teams to coordinate testing efforts and ensure seamless integration of software components.

July 2021-July 2022

### Internship Hardware Engineer

🏢 Advantest Corporation  
📍 Eindhoven, North Brabant, Netherlands

-Contributing to the design, CAD modeling, tolerance calculation, drawing, and product structure (Mechanical BOM) creation of the specified products according to defined guidelines;

- Collecting all relevant mechanical requirements (internal and customer requirements);
- Supporting the definition of functional and non-functional mechanical requirements of the product and mechanical components;
- Attending technical discussions.
- Creating prototypes or schematics of computer equipment to be built on ARM (Cortex-A and -M) and TI DSP

September 2019-June 2021

### **QA Tester**



 TowerCode  
 Eindhoven, North Brabant, Netherlands

QA tester with whole system development lifecycle experience, including designing, developing, and implementing test plans, test cases, and test processes fueling swift corrective actions, significant cost savings, and fault-free audits.

- Testing of the native mobile app, and secure VPN keyboard, with lots of plugins
- Preparing test traceability matrix to confirm the test coverage and mapping it with the test cases
- Interacting with the development, configuration, and operations team to ensure the quality of software meets users' expectations.
- Verification of various components integration of the application and end-to-end testing execution

September 2014-August 2019

### **Develop, repair and quality control in PCB**

 Enel  
 Bucharest, Romania

Excellent soldering skills, SMD rework, and assistance at the BGA machine operation. I have experience with most NCR product lines, extensive prototyping skills, Circuit Design, and PCB Layout. Ability to read blueprints and schematics related to electronic engineering and a solid understanding of Computer fundamentals and programming languages like PHP, C# (Object-Oriented Programming), and Python.

. As a part of the Enel team, my accomplishments include:


- Debugged and repaired a wide variety of NCR motherboards
- Identified and solved technical issues with a variety of diagnostic tools.
- Researched troubleshoot and resolved complex problems independently
- Trained other employees on repair procedures and system software
- Designed circuits and PCBs for professional manufacturing
- Modified existing electronics to add new functionality
- Setting up and installing new computers, networks, and software
- Responding to technical support calls from end-users of computers


and software applications

- Managing backups of servers
- Diagnosing and fixing network problems and hardware or software faults

February 2019-July 2019

### **Electronics Assembly Line**

 Prodrive Ltd

 Eindhoven, North Brabant, Netherlands

Assembly Line Operator with exceptional training I learned a lot of core qualifications from this position such as an excellent understanding of the importance of teamwork needed on an assembly line, special attention to detail, and hand-eye coordination is needed for the assembly of small parts.

My contributions are highlighted below:

- Reports defects and any other issues to the team leader in a prompt and polite manner.
- Works any assigned shift and overtime as required.
- Follows safe work procedures and wears protective equipment as required.
- Performs visual inspections and finder-point checks to assure the quality of parts.

## **EDUCATION**

2018-2022

### **ICT Software**

 Fontys University

 Eindhoven, North Brabant, Netherlands

As an ICT professional, I possess in-depth knowledge and expertise in various software applications and systems. I am proficient in analyzing, designing, developing, and implementing software solutions that meet the specific needs and requirements of organizations. Throughout my career, I have successfully contributed to the development and deployment of software solutions that have streamlined operations, enhanced productivity, and optimized business processes.

Key Proficiencies:

**Software Development:** Proficient in programming languages such as C, C++, Python, and JavaScript. Skilled in developing robust and scalable software applications using industry-standard frameworks and libraries.

**Database Management:** Experienced in designing and implementing database systems, including data modeling, schema design, and query optimization. Proficient in SQL and proficient in working with relational databases like MySQL, Oracle, and Microsoft SQL Server.

Web Development: Well-versed in HTML, CSS, and JavaScript, with expertise in front-end frameworks such as React and Angular. Experienced in creating responsive and user-friendly web interfaces.

Application Integration: Skilled in integrating software applications, systems, and databases to facilitate seamless data flow and streamline business processes. Proficient in utilizing APIs and web services for effective integration.

Testing and Quality Assurance: Knowledgeable in software testing methodologies, including unit testing, integration testing, and system testing. Experienced in using testing tools and frameworks to ensure software quality and reliability.

Version Control: Proficient in using version control systems like Git, enabling effective collaboration, code management, and version tracking.

Troubleshooting and Debugging: Strong problem-solving skills with the ability to analyze and resolve software issues efficiently. Experienced in debugging code and conducting root cause analysis.

Documentation and Technical Writing: Skilled in creating comprehensive technical documentation, including software specifications, user manuals, and troubleshooting guides.

Agile Methodologies: Experienced in working within Agile frameworks such as Scrum or Kanban, enabling iterative development, efficient project management, and continuous improvement.

Team Collaboration: Effective communicator and team player, capable of collaborating with cross-functional teams, stakeholders, and end-users to gather requirements, provide technical guidance, and deliver solutions that meet business objectives.

By leveraging these proficiencies, I have successfully contributed to the development, implementation, and maintenance of various software solutions, enabling organizations to achieve their strategic goals and drive digital transformation.

- ICT - Software Engineering

## SKILLS

Python Programming/Scripting Language   Linux Programming   Agile Programming Methodologies   C++  
MySQL   Git

## CERTIFICATIONS

Docker and Kubernetes: Course

## HONOURS AND AWARDS

Software Tester QA - manual

Software Tester QA - automation

## LANGUAGES

English - Advanced

Romanian - Fluent

## EXTRACURRICULARS

Full Stack Developments(Smart Parking):

This project was created for a company called Sioux situated in Eindhoven, Netherlands. I managed to combine multiple technologies and create a software solution that works in the following manner, A manager who has an appointment will receive a notification when the visitor reaches the company. A camera is used to read the number plate of the visitor(Python and camera) If there is a vacant spot in n parking(Arduino and IR sensors). The manager gets a text regarding the status of the visitor(Twilio for SMS), Visitor gets a welcome message. If there is no vacant Parking Spot, the visitor gets the address of the nearest parking, the manager gets the message as well. Assistant makes appointments ( React for front-end) API to connect all the technologies was created using Spring boot.

Key Technology: React, HTML, CSS, JAVA, Spring Boot, SQL Server, Arduino, Python, Tesseract, Twilio.

Data Pattern Analysis and Prediction For Belgium Pharmacies

Working for a Belgian client, I explored and identify the hidden patterns in the data set which could be useful for the client.

I utilized supervised and unsupervised machine learning algorithms to identify the patterns. Once identified, data models were created and trained to predict future medicine requirements in various provinces.

Key Technologies: Python, Excel, LibreOffice/Ms-Office

COVID-19 an AirPollution: Data-based Correlation

The aim of this research project was to evaluate the impact of Covid-19 on the number of deaths in Italy. I tried to establish the hypothesis: Is COVID-19 responsible for more deaths in Italy or has it indirectly saved more lives in Italy through the reduction in pollution during

COVID-19?

Key Technologies: Python, Tableau, Git

Airport Luggage Handling Simulation

The project aimed at creating an airport luggage handling simulation that allows a manager to simulate the relationship between the task and the available resources like the employees, carts, baggage, etc. The designed simulation was able to determine the shortest route among many possible routes and visualize the luggage flowing on it. It was designed to consider the speed of the belts and the number of items on the belts to ensure collision avoidance while maximizing the throughput. The simulation allowed the user to save a simulation for the future, or pause/stop the ongoing simulation.

Key Technologies: C#, Agile, Git, SQL

Cashless Music Festival Project

The project required creating a complete solution for organizing a cashless music festival, it included multiple applications:

Website: Where users can buy tickets, add money to their account, reserve a camping spot, etc. Entrance Application: An application that users can use to check-in/checkout by scanning their bracelet, or get a ticket when visiting the event on the go. ATM application: It allows users to add money to their RFID bracelets.

Food Application: The user scans their bracelet and purchases the food. The application denies alcohol to anyone who is not of legal age.

Key Technology: C#, HTML, CSS, Bootstrap, JavaScript, PHP, SQL.

Intelligent traffic light control system

The aim of the

the project was to reduce the time of emergency vehicles on roads by detecting the approach of emergency vehicles and controlling traffic lights to enable faster flow-through traffic. With these regards, objectives were as follows: produce requirement specifications, implement a working model of the traffic light system, design an on-board communication system to integrate with the traffic light controller and emergency vehicle, and validate the system for functionality, reliability, and safety. This involved integration of Radio Frequency modules, microcontrollers, traffic light modules, and display units.

Modules studied: Digital Signal Processing, Control, and Instrumentation, Electromagnetic Compatibility (EMC), Embedded systems, power electronics, Semiconductor devices, and research methods.

## **WORK AUTHORISATION**

I am authorised to work in the following countries:

- United Kingdom