

## Profile: Vlad-Valentin Fireteanu

<b>Personal data</b>	
<b>First name</b>	Vlad-Valentin
<b>Family name</b>	Fireteanu
<b>Year of birth</b>	1989
<b>Actual position</b>	Senior Software Engineer
<b>Education</b>	
<b>Formal qualifications</b>	<p>University Politehnica Bucharest - Ph. D Internet of Things 2015- 2022</p> <p>University Politehnica Bucharest - Master of Business Administration 2012- 2014</p> <p>Ph. D University Politehnica Bucharest – Bachelor’s degree, Automatic control and computer science 2008- 2012</p>
<b>Professional qualifications and certifications</b>	<p>ISTQB Foundation</p> <p>Linux Fundamentals – System Administration</p> <p>Linux Advanced – Server Administration</p> <p>MOC 20762C: Developing SQL Databases</p>
<b>Language skills and certifications</b>	<p>English – full professional proficiency</p> <p>French – Limited professional proficiency</p> <p>Romanian- Native</p>
<b>Published articles</b>	<p><i>” Avalanche Prediction Based on snow Level Monitoring using Wireless Sensor Networks”</i>, August 2014</p> <p><i>” Risk Assessment Parameters for Internet of Things projects”</i>, June 2019</p> <p><i>”Agile Methodology Advantages When Delivering Internet of Things Projects”</i>, June 2020</p> <p><i>”Integrating Tableau with Internet of Things Acquiring Projects”</i>, June 2020</p> <p><i>”Designing Risk Assessment Applications for Internet of Things Projects”</i>, June 2021</p> <p><i>”Quantifying Work Safety Risk Factors for Internet of Things Projects”</i>, February 2022</p>

## Professional experience

<b>Profile</b>	<p>Technical Analyst with professional experience in:</p> <ul style="list-style-type: none"> <li>- Acquiring business knowledge in different domains such as payments and online gambling compliance rules.</li> <li>- Make sure that our products are regulatory compliant</li> <li>- Translate business requirements in technical requirements and deliver them to our development teams.</li> <li>- Designing software solutions</li> <li>- Investigating production issues and craft solutions for them</li> <li>- Creating monitoring reports</li> </ul> <p>Also, QA engineer with manual testing as core skill, with professional experience in:</p> <ul style="list-style-type: none"> <li>- Delivery of payment processing applications</li> <li>- Acquiring payment business knowledge</li> <li>- Designing software solutions for different testing frameworks</li> <li>- Managing QA technical teams</li> <li>- Career Coaching</li> </ul> <p>Passionate about crafting and developing Embedded Software and hardware equipment (Arduino)</p>
<b>Career history</b>	<ul style="list-style-type: none"> <li>• [10.04.2020] to present – [Endava] – [Software Engineer] [Member of the End-to-end Test team for a project within the Insurance Domain]</li> <li>• [03.15.2019] to [10.01.2020] – [Sparkware] – [Compliance Technical Analyst] [Member of the Compliance Analysis team for one of the lead players in online gambling]</li> <li>• [07.01.2013] to [03.15.2019] – [Endava] – [Software Engineer] [Member of the Component Test team for a Payment Clearing project → Component Test Lead → Component Integration Team member]</li> <li>• [01.15.2015] to [06.15.2015] – [University Politehnica Bucharest] – [Research Assistant] Member of the "Robotic arm control in subsonic wind tunnel" project in collaboration with National Institute of Aerospace Research "Elie Carafoli"]</li> <li>• [03.01.2013] to [07.01.2013] – Mira Telecom Internship Software and hardware engineering (Arduino architecture)</li> </ul>

	<ul style="list-style-type: none"> <li>• [06.01.2011] to [09.01.2011] - Michelin Internship Industrial Automation (Grafcet, PLC Ladder Diagram)</li> </ul>
<b>Assignment history</b>	<ul style="list-style-type: none"> <li>• <b>[10.04.2020] to present -- [Insurance project] – [Software Engineering]</b> <ul style="list-style-type: none"> <li>• <b>PROJECT GOAL / PRODUCT DESCRIPTION</b> <ul style="list-style-type: none"> <li>○ Quality Assurance of the main Insurance application. Our team is focused on performing different end-to-end testing scenarios used to validate the main business and technical flows. The project is structured around an ETL application developed using Microsoft SQL Server</li> </ul> </li> <li>• <b>TECHNOLOGIES USED</b> <ul style="list-style-type: none"> <li>○ Microsoft SQL Server, Jira, Zephyr, Confluence</li> </ul> </li> <li>• <b>METHODOLOGIES USED</b> <ul style="list-style-type: none"> <li>○ Agile</li> </ul> </li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• <b>[03.15.2019] to [10.01.2020] – [Online Gambling delivery projects – CSP and Bingo] – [Software Engineering]</b> <ul style="list-style-type: none"> <li>• <b>PROJECT GOAL / PRODUCT DESCRIPTION</b> <ul style="list-style-type: none"> <li>○ Our team is part of the cross architecture which include all the projects within our company. Each of the deliverables must be compliant and is our job to assure and monitor this aspect.</li> </ul> </li> <li>• <b>TECHNOLOGIES USED</b> <ul style="list-style-type: none"> <li>○ Microsoft SQL Server, TFS, Xpolog, Tableau, Kibana, Confluence, internal tools for player monitoring (Casino, Sports, Poker, Bingo)</li> </ul> </li> <li>• <b>METHODOLOGIES USED</b> <ul style="list-style-type: none"> <li>○ Agile</li> </ul> </li> </ul> </li> </ul> <p><b>Job description and daily tasks:</b></p> <ul style="list-style-type: none"> <li>- Perform reviews and technical analysis for our product in order to make sure that the delivered applications are regulatory compliant.</li> <li>- Cross monitoring daily reports to see if we have any compliance breach. Raising compliance findings that are cascaded to our development teams.</li> <li>- Requirement engineering and SQL developing of new reports if needed (building monitoring scenarios when extending to new markets/brands, implementing new functionalities etc.).</li> <li>- Writing both business and technical documentation for our applications and monitoring reports.</li> <li>- Technical analysis of high-level business requirements and cascading the results to our Agile teams. These teams use the requirements to deliver new functionalities as part of SDLC</li> <li>- Familiar with compliance standards enforced by specific regulators for each country (GAMSTOP, DGOJ, ROFUS, SGA, SRIJ etc.)</li> </ul>

	<ul style="list-style-type: none"> <li>- Familiar with responsible gaming principles as part of delivering both fair and safe gaming experience (Self exclusion, players profiles, accurate client payments fraud scenarios, ID verification)</li> <li>- Familiar with GDPR policies</li> <li>- Aware of competitive intelligence principles and how the user experience can be improved based on these.</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>[07.01.2013] to [present] – [Payment Scheme Clearing project] – [Software Engineering]</b> <ul style="list-style-type: none"> <li>• <b>PROJECT GOAL / PRODUCT DESCRIPTION</b> <ul style="list-style-type: none"> <li>○ Creating an application being able to provide the clearing part for transactions</li> </ul> </li> <li>• <b>RESPONSIBILITIES</b> <ul style="list-style-type: none"> <li>○ Test Case Design, Test Case Execution, Confirmation Testing, Exploratory testing, Design of different clearing functionalities</li> </ul> </li> <li>• <b>TECHNOLOGIES USED</b> <ul style="list-style-type: none"> <li>○ IBM Message Broker, Websphere Queue Manager, solidDB, RfhUtil, Putty, WinSCP</li> </ul> </li> <li>• <b>METHODOLOGIES USED</b> <ul style="list-style-type: none"> <li>○ Agile</li> </ul> </li> </ul> </li> </ul> <p><b>As a short description of my relevant experience,</b> we have the following key points:</p> <ul style="list-style-type: none"> <li>- I started on a payment scheme clearing as part of our component test team. We used Agile as SDLC to deliver our product. The application itself is a large platform which includes several components, each with a specific role. As a component tester, my daily activity was to perform test case design, test case execution, confirmation and regression testing. Because each component was different, I gained more business knowledge about payment processing applications. Moreover, I interacted with the following technologies:</li> <li>- IBM Message Broker, IBM Queue Manager, IBM RFHUtil – these were used to check the integrity of the transactions that were routed through our platform.</li> <li>- IBM SolidDB and Oracle DB used to store the required data for our platform. Due to the complexity of the application, our project includes two large data bases used to store specific business information (customers, merchant details, private account numbers, issuer details) and I was also involved in testing them. First, different complex queries were used to verify if the returned data is matching the enriched transactions (XML files with information about the involved players). I also verified that the database is accurately populated. We receive daily .csv files that must be parsed and used to populate different tables. These should comply with business standards and respect the integrity constraints (table relation, key constraints, data types). I also designed a software solution to compare a newly introduced type of files and the required table to support it.</li> </ul> <p>After three years of component testing, I advanced to a Test Lead position within the same team. Our duty was to provide the required coverage for the delivered functionalities. I was involved both in</p>

	<p>coordinating a team of six members and testing different platform functionalities. We used Agile as SDLC with all the methodology artefacts (daily stand-up meetings, planning, retrospective, demo sessions when needed).</p> <p>Last year the platform was deployed live and 208k merchants migrated to it. That was the time when I advanced to the component integration team to test end to end scenarios. Currently, I support the platform in production and investigate the failing transactions and technical issues. I interact with an Oracle based DB where all the transactions are stored (at this moment we process 8M pounds/day)</p>
	<ul style="list-style-type: none"> <li>• <b>[01.15.2015] to [06.15.2015– [Robotic arm control in subsonic wind tunnel] – [UR programming language designer]</b> <ul style="list-style-type: none"> <li>• <b>PROJECT GOAL / PRODUCT DESCRIPTION</b> <ul style="list-style-type: none"> <li>○ Creating an application for a robotic arm remote control</li> </ul> </li> <li>• <b>RESPONSIBILITIES</b> <ul style="list-style-type: none"> <li>○ Understanding Universal Robot Programming Language</li> <li>○ Understanding the provided hardware equipment</li> <li>○ Writing of the robot's routines in UR Programming Language</li> <li>○ Back-end design for robot's functionalities</li> <li>○ Writing of project documentation.</li> </ul> </li> <li>• <b>TECHNOLOGIES USED</b> <ul style="list-style-type: none"> <li>○ Python, UR Programming Language</li> </ul> </li> <li>• <b>METHODOLOGIES USED</b> <ul style="list-style-type: none"> <li>○ Big-Bang</li> </ul> </li> </ul> </li> </ul>
	<p><b>[03.01.2013] to [03.01.2013– [Line Following Robot] – [Arduino IDE, C]</b></p> <ul style="list-style-type: none"> <li>• <b>PROJECT GOAL / PRODUCT DESCRIPTION</b> <ul style="list-style-type: none"> <li>○ Build a line following robot using sensors, motors, and batteries</li> <li>○ Program the robot to map certain surfaces</li> </ul> </li> <li>• <b>RESPONSIBILITIES</b> <ul style="list-style-type: none"> <li>○ Understanding Arduino IDE</li> <li>○ Transform Voltage inputs in human readable units</li> <li>○ Program and test the robot to comply the basic requirements</li> </ul> </li> </ul>
	<p><b>[06.01.2011] to [09.01.2011– [Commanding industrial line] – [PLC Ladder Diagram, C]</b></p> <ul style="list-style-type: none"> <li>• <b>PROJECT GOAL / PRODUCT DESCRIPTION</b> <ul style="list-style-type: none"> <li>○ Build an industrial line using motors and sensors</li> <li>○ Program the line to roll specific materials</li> </ul> </li> </ul>

	<ul style="list-style-type: none"><li>• <b>RESPONSIBILITIES</b><ul style="list-style-type: none"><li>○ Thinking the electrical scheme of the project</li><li>○ Using the electrical scheme for montage</li><li>○ Program the montage to comply with the requirements</li></ul></li></ul>
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