

# Petru Lucian Giurca

46 years(1978-11-02), M

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## PROFESSIONAL EXPERIENCE

### Generative AI Software Engineer

HCLTech, BUCHAREST

August.2023 - until now (1 years, 7 months)

Job domain: IT Software

Responsibilities:

- developing and implementing LLMs using LangChain, Streamlit, Google Vertex AI, and Hugging Face Hub to select appropriate models, fine-tune them for specific tasks, and optimize performance.
- designing and implementing Generative AI Design Patterns to create innovative AI solutions.
- evaluating LLM and RAG (Retrieval-Augmented Generation) implementations and iterating on these to boost system performance, accuracy, and efficiency.
- developing and integrating APIs using frameworks like FastAPI, Django, or Flask to facilitate AI functionalities within larger systems.
- writing clean, efficient, and well-documented code in Python and NodeJS ensures the maintainability and scalability of the developed solutions.
- utilizing Vertex AI Agent Builder to build and train GenAI models.
- using LangChain within Vertex AI to interface with models hosted on Hugging Face Hub.
- implementing CICD pipelines using GitHub Actions to automate the build, test, and deployment processes.
- collaborating with cross-functional teams, including data scientists, engineers, and product managers, to define project requirements and deliver solutions.
- communicating technical concepts and solutions to both technical and non-technical audiences.
- staying up-to-date with the latest advancements in LLMs, Generative AI, and cloud computing technologies.

### DevSecOps Expert

HCLTech , BUCHAREST

October.2022 - July.2023 (9 months)

Job domain: IT Software

Responsibilities:

- working with the Security Architecture team to define authentication and authorization patterns using SAML, OpenID, and STS; also working with the Cloud Architect to generate assessments and develop and implement actionable recommendations based on results and reviews;
- installing, configuring OpenSSL, and managing SSL certificates for authentication;
- identifying, analyzing, and resolving infrastructure vulnerabilities and application deployment issues;
- establishing communication channels with key stakeholders to manage expectations and resolve issues;

- using Iac Terraform to provision Azure Infrastructure;
- experience in building/managing private clouds with Red Hat OpenStack;
- experience creating pods and clusters in Kubernetes and deploying those using the Red Hat OpenShift Platform;
- good understanding of OpenShift Platform in managing Docker containers and Kubernetes clusters;
- creating CA policies in EntraID to allow or deny access to network resources;
- aligning security best practices and frameworks such as NIST, SOC2, ISO27001:2022;
- scanning for CVE vulnerabilities inside the components/libraries/dependencies files in the repositories;
- performing static analysis for source code, binaries/bytes code to discover security vulnerabilities, including custom rules as part of the SAST scanning to check for business flaws and ensure easy debugging;
- creating baseline files to use for false-positive analysis during SAST scans;
- performing the scanning of GIT secrets (tokens, certs, ssh keys) using Gitguardian, OXSecurity, MegaLinter in VCS using CICD pipelines (Azure DevOps and GitHub Actions), config files (environment variables), config management and secret management system;
- performing Dynamic Analysis for web server using OWASP ZAP to scan for dangerous files/programs, weak configurations, etc.;
- identifying open and vulnerable ports on a web server using Nmap and remediating the discovered vulnerabilities with the app owner;

Company description:

HCLTech is a global technology company, home to 222,000+ people across 60 countries, delivering industry-leading capabilities centered around digital, engineering, and cloud, powered by a broad portfolio of technology services and products. We work with clients across all major verticals, providing industry solutions for Financial Services, Manufacturing, Life Sciences and Healthcare, Technology and Services, Telecom and Media, Retail and CPG, and Public Services. Consolidated revenues as of the 12 months ending December 2022 totaled \$12.3 billion. To learn how we can supercharge progress for you, visit <https://www.hcltech.com>

## DevSecOps Engineer

Axsys Business Technology, BUCHAREST

March.2022 - September.2022 (6 months)

Job domain:

IT Software

Responsibilities:

- providing leadership in the DevSecOps areas of Vulnerability Scanning, Certificate Management, Password Policy Management, Data Analysis of security monitoring outputs, coordination of Remediation Patching, and other daily Security and Compliance efforts;
- assisting in developing an automated security framework for robust deployment tools and processes, leveraging various scripting languages and open-source solutions;
- reviewing and analyzing vulnerability data to identify security risks to the organization's network, infrastructure, and applications and determine any reported vulnerabilities that are false positives;
- comprehension in the security areas of Key Management Systems, Certificate Management, Encryption, Penetration Testing, Vulnerability Scanning, Security and Monitoring tools;
- familiarity with Information Security frameworks/standards (i.e., IEC/ISO 27001:2013, CIS, NIST, RFC2196) and with SAST, DAST, and OSS scanning tools.
- working with APIs and Plugins to integrate security tools into established CI/CD pipelines;
- experience in building/managing private clouds with Red Hat OpenStack;

- experience creating pods and clusters in Kubernetes and deploying those using the Red Hat OpenShift Platform;
- good understanding of OpenShift Platform in managing Docker containers and Kubernetes clusters;
- comfortable with securing a production container ecosystem (Docker, EKS, Fargate/ECS, Kubernetes, service discovery, and service registry) in a continuous delivery environment using Jenkins, Ansible, and Terraform.

Company description: Axsys Romania offers highly professional services to companies interested in top ERP, CRM, BI applications, focusing on Dynamics 365 for Finance and Operations, Enterprise Edition, Dynamics NAV, Dynamics 365 for Sales and Customer Engagement, Power BI in cloud or on-premise.

## Sr DevOps Engineer

Arnia Software (LEGO Group Denmark), BUCHAREST

September.2021 - February.2022 (5 months)

Job domain: IT Software

Responsibilities:

- using Golang and Pulumi to provision Azure Infrastructure;
- Write clean, high-performance, well tested infrastructure code with a focus on reusability and automation (i.e. Ansible, Terraform);
- Working knowledge of backup and restore solutions in Linux and Windows environments with Veeam Backup & Replication;
- Experience with database management systems (MS SQL Server / MySQL / MongoDB);
- Experience with monitoring tools like Prometheus and Grafana;
- Experience with Amazon Web Services (Amazon EKS, CloudFormation, CloudWatch, Amazon WorkSpaces, Lambda, API Gateway, Aurora);
- Knowledge of configuration management processes and software repositories (Git) including tagging/versioning and branching strategies;
- Experience with continuous integration tools like Git, GitLab;
- Exposure to Microservices architecture (CI/CD pipeline using Azure Pipelines);
- Experience with continuous integration tools like Git, GitLab, Jenkins;
- Experience in automation exposure using Azure DevOps, Terraform, Ansible, PowerShell, Python, Docker, and Kubernetes (AKS) as part of LIVE project.
- Perform Application vulnerability scanning;
- Perform Network vulnerability scanning.

Company description: Arnia Software is a leading software development company, founded in 2006. Our areas of expertise cover most of the current software technologies, frameworks and platforms for developing and implementing.

## DevSecOps Specialist

GENERAL ELECTRIC, BUCHAREST

July.2019 - September.2021 (2 years, 2 months)

Job domain: IT Software

Responsibilities:

- participating in the infrastructure architecture governance model;
- collaborating with developers and analysts to set specifications for new system designs in JIRA Software;
- providing technical expertise for the Software Configuration & Build Management functions toolset, processes, and procedures;
- developing and implementing build processes and procedures for maintaining build plans, version control, and defect tracking;
- ensuring that all releases and deployment packages can be tracked, installed, tested, verified, and/or uninstalled or backed out, if appropriate, in Nexus Repository;

- supporting the design and deployment of infrastructure solutions meeting standardization, consolidation, TCO, security, regulatory compliance, and application system qualities for different businesses;
- researching and evaluating emerging technology, industry, and market trends to assist in project development and/or operational support activities;
- coaching and mentoring team members;
- ensuring that change is managed during the release and deployment activities in Confluence;
- quality process: Ensuring all tasks are carried out concerning applicable processes and procedures (e.g., ISO9001 and ISO27001) relevant to the site/s and functions within the job scope;
- supporting and working alongside Agile development teams to ensure they have all the facilities to get the job done;
- driving best technology and software development practices into the team with passion and enthusiasm;
- establishing and running the processes for ongoing maintenance monitoring; support and security patching of a platform;
- experience with database management systems (MS SQL Server / Oracle DB);
- experience in automation exposure using Azure DevOps, Terraform, PowerShell, Python, Docker, and Kubernetes (AKS) as part of a POC project.
- reports to the Head of Information Security;
- perform Security Risk Assessments;
- perform Application vulnerability scanning;
- perform Network vulnerability scanning;
- spread security awareness throughout the company;
- installation and maintenance of internal security tools;
- monitoring and interpreting data from several security monitoring platforms;
- security Incident Management and Security Event Management;
- experience in building/managing private clouds with Red Hat OpenStack;
- experience creating pods and clusters in Kubernetes and deploying those using the Red Hat OpenShift Platform;
- good understanding of OpenShift Platform in managing Docker containers and Kubernetes clusters;
- creation and maintenance of security policies and approval of change requests from the security point of view.

Company description:

GE (NYSE:GE) drives the world forward by tackling its biggest challenges. By combining world-class engineering with software and analytics, GE helps the world work more efficiently, reliably, and safely. GE people are global, diverse and dedicated, operating with the highest integrity and passion to fulfill GE's mission and deliver for our customers. [www.ge.com](http://www.ge.com)

## IT System Engineer

BullGuard Software , BUCHAREST

April.2018 - June.2019 (1 years, 2 months)

Job domain:

IT Software

Responsibilities:

- Work closely with solution architects and cloud engineers and provide support to senior staff, ensuring designs align with technical and business direction across the company;
- Write clean, high-performance, well-tested infrastructure code with a focus on reusability and automation (i.e., Shell, Python, Terraform);
- Work collaboratively with Cloud/DevOps developers, platform delivery lead, solution architects, and enterprise architects to define and develop secure, highly scalable enterprise cloud products;
- Explore and recommend new technologies/services. Articulate the advantages of various solution options;
- Provide recommendations on architectural changes to improve efficiency,

- reliability, and performance and to reduce cost;
- Support platform delivery lead on the prioritization of the product backlog, refining product roadmap, reporting, KPIs & releases;
- Actively participate and contribute to all sprint ceremonies (daily stand-up, sprint planning, sprint retro, sprint demo, and backlog grooming)
- Experience with monitoring tools like Prometheus and Grafana;
- Hands-on experience with public cloud platforms like Microsoft Azure;
- Working knowledge of backup and restore solutions in Linux and Windows environments with Veeam Backup & Replication;
- Experience with database management systems (MS SQL Server / PostgreSQL);
- Knowledge of configuration management processes and software repositories (Git), including tagging/versioning and branching strategies;
- Exposure to Microservices architecture (CI/CD pipeline using Azure Pipelines);
- Experience in automation exposure using Azure DevOps, Terraform, PowerShell, Python, Docker, and Kubernetes (AKS) as part of a POC project.
- Perform Application vulnerability scanning;
- Perform Network vulnerability scanning.

Company description:

BullGuard specializes in best-of-breed PC security solutions for home users and small businesses, emphasizing technical excellence, ease-of-use, and customer care. We're our customer's private bodyguard - tracking and tackling security threats so you can connect confidently, control easily, and travel freely throughout your digital world. Its award-winning product portfolio includes in-depth internet security, comprehensive mobile security, 24/7 identity protection, and social media protection for both home and small business users.

BullGuard is also a pioneer in the Internet of Things (IoT) and connected device security for consumers. It released the world's first IoT vulnerability checker and following the acquisition of Dojo Labs is leading the consumer cyber-security industry in providing the highest level of protection to consumers across all of their Internet-connected devices and smart homes.

## Linux System Administrator

StarTechTeam, BUCHAREST

April.2014 - March.2018 (3 years, 11 months)

Job domain:

IT Hardware

Responsibilities:

- Administration of computer networks for partner companies, software installation, patching, upgrading, and maintenance of operating systems, operating systems, and installation cloning clones on workstations, data backup, and restoration on RHEL6 on-premises infrastructure.
- Installation and configuration of equipment and systems of the partner companies, installation of hardware and software upgrades to ensure the complex is done in accordance with company policy;
- Maintain and improve the existing infrastructure and virtualization system;
- Install relational databases and associated software;
- Install application software;
- Evaluate, test, and integrate new operating system versions, drivers, and patches;
- Provide technical analysis and resolution of problems and incident reporting;
- Monitor system events to ensure health, maximum system availability, and service quality.

Company description:

With us, your business exploits the benefits of technology for an accelerated developing, in order to cover the issues of critical IT solutions and by providing technical support for your employees to avoid interruptions in activity.

Your goals are supported by full service IT support, acting as a fully outsourced service provider or completing your IT department.

## Helpdesk Support Specialist

GENPACT ROMANIA SRL, BUCHAREST

January.2009 - March.2014 (5 years, 2 months)

Job domain:	Telecommunication
Responsibilities:	<ul style="list-style-type: none"><li>- Receive customer's fault requests by email/ web/phone on different telecom equipment, create a trouble ticket using a ticketing interface and dispatch it according to internal procedures to the appropriate engineers;</li><li>- Responsible to interface with customers via Live Chat and Helpdesk tickets to address and resolve T1 and T2 technical and product support inquiries;</li><li>- Maintain and develop a broad technical knowledge of the Company's products and services;</li><li>- Offer solutions to issues that are often non-standard/nonroutine;</li><li>- Dispatch to other internal groups or escalate if needed;</li><li>- Diagnose and resolve customer problems;</li><li>- Report and track faults throughout the support process;</li><li>- Collect, interpret and communicate customer priorities and feedback regarding system design and performance to other internal teams;</li><li>- Take ownership of escalated issues and follow through to resolution.</li></ul>
Company description:	<p>Genpact (NYSE: G) is a global professional services firm that makes business transformation real. We drive digital-led innovation and digitally-enabled intelligent operations for our clients, guided by our experience running thousands of processes primarily for Global Fortune 500 companies. We think with design, dream in digital, and solve problems with data and analytics. Combining our expertise in end-to-end operations and our AI-based platform, Genpact Cora, we focus on the details at all 87,000+ of us. From New York to New Delhi and more than 25 countries in between, we connect every dot, reimagine every process, and reinvent companies and ways of working. We know that reimagining each step from start to finish will create better business outcomes. Whatever it is, we will be there with you and accelerating the digital transformation to create bold, lasting results and because transformation happens here.</p> <p>Genpact began in 1997 as a business unit within General Electric. In January 2005, Genpact became an independent company to bring our process expertise and unique DNA in Lean management to clients beyond GE, and then in August 2007, we became a publicly-traded company. Bain Capital became Genpact at largest shareholder in November 2012, with the strategic objective to grow the company further. Since December 31, 2005, we have expanded from 19,000+ employees and annual revenues of US\$491.90 million to 80,000+ employees and annual revenues of US\$3.00 billion as of December 31, 2018.</p>

## STUDIES

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### Spiru-Haret University

October.2008 - May.2010

Diploma (type of studies):	Master Degree
Field of studies:	Law
City:	BUCHAREST

Diploma (type of studies):

Bachelor Degree

Field of studies:

Law

City:

BUCHAREST

ABILITIES

Foreign languages:		<b>Writing</b>	<b>Reading</b>	<b>Speaking</b>
	English	Advanced	Advanced	Advanced
	Italian	Advanced	Advanced	Advanced
	French	Intermediate	Intermediate	Intermediate

Driving licence :

Yes

Qualities:

Efficient Communicator, Problem solving, Teamwork oriented,

IT knowledge:

-Experience with HA Storage systems like proprietary NetApp;  
-Hands-on experience on CentOS, Debian/Ubuntu, ESXi, and HyperV systems;  
-Familiarity with MS Windows 2012/2016 Active Directory domain, DNS, and DHCP;  
-Experience with web servers (IIS / NGINX);  
-Knowledge of Python/PowerShell scripting;  
-Strong experience with monitoring tools like Prometheus, and Grafana;  
-Knowledge of Infrastructure as Code (IaC) deployments (Terraform);  
-System configuration management expertize with products such as Ansible;  
-Hands-on experience with public cloud platforms like Microsoft Azure;  
-Working knowledge of backup and restore solutions in Linux and Windows environments;  
-Good understanding of Load Balancer technologies like Citrix Netscaler;  
-Experience with database management systems (MS SQL Server);  
-Knowledge of configuration management processes and software repositories (Git) including tagging/versioning and branching strategies;  
-Exposure to Microservices architecture (CI/CD pipeline using Azure Pipelines);  
-Deployment of Kubernetes cluster (AKS) with Terraform modules.

Certificates:

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Deploying and Evaluating GenAI Apps with MongoDB  
MongoDB  
Certificate No: 5050c00f-5db8-42dc-a6b6-1d42945d7c0a

Certified Python Developer  
Global Tech Council  
Certificate ID: 133496666

Conda Fundamentals Certification  
Anaconda  
Certificate No: 8x49xnewgiyh

Certified LLM Developer  
Blockchain Council  
Authorized Credential ID: 128013104

Using MongoDB with Python  
MongoDB  
Authorized Credential ID: MDBxtmkor5sjm

MongoDB for SQL Experts

MongoDB  
Authorized Credential ID: MDBen06vi97yh

Certified CyberSecurity Expert  
Blockchain Council  
Authorized Credential ID: 99570410

Certified Artificial Intelligence (AI) Developer  
Blockchain Council  
Authorized Credential ID: 90861084

Certified Artificial Intelligence (AI) Expert  
Blockchain Council  
Authorized Credential ID: 90766236

Certified Generative AI Expert  
Blockchain Council  
Authorized Credential ID: 89894854

Certified Full Stack Developer  
GSDC - Global Skill Development Council  
Authorized Credential ID: 28138

Certified DevSecOps Engineer  
GSDC - Global Skill Development Council  
Authorized Credential ID 24406

Certified Information Security Executive  
Global Tech Council  
Authorized Certification ID 59405760

Certified DevOps Developer  
International DevOps Certification Academy  
Authorized Credential ID 76533929343800

Certified Professional As Lean Enterprise Architect (CPLEA)  
SkillFront  
Authorized Credential ID 21771328743525

DevOps Architect  
International DevOps Certification Academy  
Authorized Credential ID 53108669612556

Certified Pentesting Expert  
Global Tech Council  
Authorized Certification ID 34584301

Certified White Hat Hacker  
Global Tech Council  
Authorized Certification ID 34884816

Certified Blockchain Expert  
Blockchain Council  
Authorized Certification ID 33318116

Certified Cyber Security Professional  
Global Tech Council  
Authorized Certification ID 34394045

Accredited Project Manager Certification™ (APRM™)



IO4PM™ International Organization for Project Management  
Authorized Certification ID 93302283055614

MBA Leadership  
International MBA Institute™ - Accredited MBA Degrees  
Authorized Certification ID 83275839781388

Six Sigma Black Belt  
International Six Sigma Black Belt  
Authorized Certification ID 89171077729202

Software Test Automator  
International Software Test Institute  
Authorized Certification ID 68789371730294

Certified Rancher Operator: Level One  
Rancher Labs  
Authorized Certification ID 8aec60f5e2844695b3695497427e2a3c

ISO 9001 Quality Management Systems Quality Manager  
SkillFront  
Authorized Certification ID 14617403496157

ISO/IEC 27001 Information Security Manager  
SkillFront  
Authorized Certification ID 66025035919122

DevOps Information Security Engineer  
International DevOps Certification Academy  
Authorized Certification ID 53866231590975

Scrum Master  
International SCRUM Institute  
Authorized Certification ID 44459943816065

DevOps Operations Engineer  
International DevOps Certification Academy  
Authorized Certification ID 55993733403738

Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack  
Microsoft Certification ID 17682182

IT Essentials

Linux Essentials

NDG - LPIC 1-101

NDG - LPIC 1-102

CCNA Routing and Switching: Introduction to Networks

CCNA Routing and Switching: Routing and Switching Essentials

CCNA Routing and Switching: Scaling Networks

CCNA Routing and Switching: Connecting Networks

CCNA Security: Implementing Network Security

DESIRED JOB TYPE

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Job type:	Full Time,
Job level:	over 5 years of experience
Salary expectations (EUR)	Unspecified
Are you willing to travel:	No