

## Contact

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featured (Other)

## Top Skills

Docker Products  
GoLang  
Agile methodology

## Languages

English (Native or Bilingual)  
Russian (Native or Bilingual)

## Certifications

Design & User Experience (D&UX)  
Essentials  
Docker Essentials: A Developer  
Introduction  
IBM Security Essentials for  
Architects  
Containers & Kubernetes Essentials  
IBM Event Streams Developer  
Essentials

## Publications

Docker container security  
Kafka Cluster on Docker Compose  
Agile development, Microservices,  
and CI/CD unification  
Fantasies on the theme of  
Metaverse  
Self-Signed Certificates and curl: A  
Practical Guide

# Olga Shafran

Accomplished Software Engineering High-performance Teams  
Leader | Technology Transformations Evangelist | Scale and  
Architecture Problem Solver | Critical situations managing  
Ottawa, Ontario, Canada

## Summary

- Over 25 years of extensive experience in building and managing complex distributed systems, with a strong passion for both technology and people.
- Proven expertise in leading and mentoring high-performing R&D teams of skilled developers, fostering a collaborative and innovative environment.
- Strong leadership capabilities, including recruiting, building, coaching, providing guidance, and motivating teams towards achieving their goals.
- Deep technical expertise with the ability to design and develop advanced architectures and high-performance, scalable solutions.
- Demonstrated experience leading and delivering large-scale software projects, ensuring timely milestone completion and effectively resolving both technical and structural challenges.
- Experience working on core products that deliver critical services to a wide range of stakeholders, ensuring high availability and reliability.
- Customer-centric approach with a genuine commitment to ensuring customer satisfaction through the products I create.
- Ability to thrive in fast-paced environments, with a proactive, "can-do" attitude and a focus on results.
- Extensive experience applying Agile development methodologies to drive continuous improvement and timely delivery.
- Excellent communication skills, with the ability to engage effectively with all organizational levels and collaborate closely with customers.

Specialties: Kubernetes, Docker, Java, C#, Rust, Golang, JavaScript, Python, SQL/NoSQL, Bash, Kafka, gRPC, Agile/Scrum, GitHub, GitHub Actions, Jenkins, OpenShift, RedHat, Istio Service Mesh, CI/CD, AWS (EC2, S3, SQS, SNS, Lambda, IAM), Envoy, NGINX, DevOps.

# Experience

Cisco

3 years 9 months

Cisco Security - Software Development Technical Team Lead

January 2023 - Present (2 years 1 month)

Ottawa, Ontario, Canada

Responsibilities:

- Led and coding through all phases of software development from requirement gathering through implementation and maintenance
- Working with multiple teams in Cisco Security on developing innovative solutions for Zero Trust Network Access (ZTNA) Product running on the cloud and on-premises.
- Build an edge technology product from the ground up.
- Own the team's technical vision and provide technical direction.
- Work closely with Product, Marketing, Customer Care, and Operations departments, Developers Contractors Vendor

Achievements:

- Develop a cloud-native application from the ground up using a microservices architecture, incorporating Docker containers, native Linux services, and deployed on both on-premises and AWS environments, while fulfilling security and federal compliance requirements.
- While migrating from Jenkins to the GitHub Actions platform, set up a comprehensive software development lifecycle (SDLC) that includes building, automated continuous integration, deployment, and integration testing.
- Implement user identity management using the Okta platform.
- Develop an ACME-based Certificate Management Self-Serve Tool that follows strong security principles.
- Lead the implementation of custom domain features in Cisco's ZTNA product, including using Envoy Proxy's Secret Discovery Service (SDS) to enhance security, scalability, and robustness in the customer certificate management infrastructure

Most used technologies:

GoLang, Python, Python, Kafka, DNS, JWT, Docker, GitHub Action, Terraform, AWS, GitHub, REST API, gRPC, WebSocket, Envoy, NGINX, HTTP/HTTPS, Automatic Certificate Management Environment (ACME), Identity and access management (IAM), Okta

Software Development Technical Team Lead

May 2021 - January 2023 (1 year 9 months)

Ottawa, Ontario, Canada

Responsibilities:

- Led and coding through all phases of software development from requirement gathering through implementation and maintenance
- Own project execution and recruit, hire, retain and develop top-talent engineers. Continuously improve the team (structure, processes, stability, and deliverables)
- Own the team's technical vision and provide technical direction.
- Work closely with Product, Marketing, Customer Care, and Operations departments, Developers Contractors Vendor
- Management - distributed teams that develop new, cloud-based products

Achievements:

- Implementation of Cloud-Native Application using Microservice Architecture, Docker containers running on Kubernetes environment from scratch.
- Establish full software development lifecycle flow: development, automated continuous integration, and deployment, and integration testing.
- Manage the delivery of several concurrent product versions
- Successful collaboration and work with different teams on Open-Source API initiatives and improvement of the customer experience by 30%

Most used technologies:

Python, Kafka, PostgreSQL, DNS, JWT, Docker, Jenkins, Helm Chart, Terraform, Kubernetes, Java, NATS Jetstream, CircleCI, GitHub, GoLang, Neo4j DB, REST API

IBM

2 years 9 months

Team Leader and Product Owner

July 2020 - May 2021 (11 months)

Ottawa, Ontario, Canada

- Ownership of Data Ingestion Flow Component in product new generation for the Cloud Environment, including technical team leadership and evaluation of the cutting edge technologies to understand how they complement the product offerings.
- Provides subject matter expertise of message exchange patterns and how to deploy them like Kafka with a focus on scalable, fault-tolerant, sustainable solutions with adequate security, observability, and operational survivability as well as detailed knowledge of Kubernetes and containerized solution.

- Implement a Kubernetes Operator in Golang to automatically deploy/manage applications, network configuration in SaaS/multi-tenant cluster
- Hands-on implementation of POC projects with streaming analytics processing engines like Kafka-connect involving a deeper understanding of reliable, scalable, lossless applying knowledge of networking infrastructure, and ability to identify complex switching, routing, firewall issues.
- Reporting the progress of the program at regular intervals operations meetings
- Creating and maintaining focus, enthusiasm, and momentum by creating and prioritization epics and stories for the agile team

### Team Leader, Senior Software Developer

August 2019 - July 2020 (1 year)

Ottawa, Ontario, Canada

- Leads and manages the activities of software engineering teams in the design, development, testing, and ongoing maintenance of software applications using industry best practices
- Provides subject matter expertise and guidance on developed and containerized the scalable event pipeline of a SIEM on the cloud (Red Hat® OpenShift®, Kubernetes) that collects log events from network assets and detects threats to identify incidents, built with Kafka.
- Designed and implemented the CI/CD infrastructure and deployment model for the team to build, test, deploy and release multiple microservices on Kubernetes and OpenShift.
- Built the Kubernetes Operator to package, deploy and manage cloud applications using SDK.

### Software Developer

September 2018 - August 2019 (1 year)

New Brunswick, Canada

- Implementation and Improvement of QRadar High-Availability solution;
- QRadar Offboard Storage support(iSCSI, Fibre Channel, NFS);
- Improving QRadar Network Setup Component, supporting Ipv4/ Ipv6 traffic.
- Software development platforms and solutions: Java, Python, Go, Rust, Linux OS, TCP/UDP, DNS

### RADWIN

Software Lead / Application Specialist

April 2017 - July 2018 (1 year 4 months)

Tel Aviv Area, Israel

Responsibilities:

- Technical and management leadership of team with numerous of inner interfaces (Hardware team , Engineering team , PM and PS teams).
- System design reviews, issue resolution
- Implementation of key product features
- Release management
- Management of a remote site team consisting of mobile (iOS and Android) application developers.

#### Achievements:

- Improving of code quality and maintainability by using Flask-RESTful extension for Flask
- By using bravado-core and connexion Python libraries for client-side and server-side support of the OpenAPI Specification v2.0 with Swagger integration:  
decrease implementation time by 20%
- CI/CD infrastructure definition and implementation based on Jenkins server - reducing release deployment time from 1 hours to just 10 minutes.
- Led of heterogeneous team (up to 6 both highly experienced and junior developers)
- Coordinated multiple successful product releases
- Introduction of secure and highly scalable private Git version control tool(based on CodeCommit - AWS Managed Source Control Service): improve group integrity by 55%

#### Most used technologies:

- Rest API implementation using Python with Flask microframework based on Werkzeug, Jinja2  
and JSON Web Tokens (JWT) authorization
- Implementation of Web UI for embedded devices implementation using Angular2/6
- Implementation and maintenance of WPF desktop application in C#
- Native mobile apps Android/iOS for the antenna alignment and hardware deployment

#### BrandShield Ltd.

##### Software Development Team Leader

June 2016 - April 2017 (11 months)

Ramat HaSharon Area, Israel

- System and database design, design reviews, issue resolution
- Implementation of key product features. Data retrieval and data modelling.

- Provide technical leadership to team-mates through coaching and mentorship
- Develop, refine, and tune integrations between applications
- Management of deployment and hosting processes for Windows and Linux
- Package and support deployment of releases
- Design, develop, and unit test applications in accordance with established standards
- Take responsibility for ensuring that risks and issues are identified and managed closely and drive all stakeholders to deliver on time and to the required quality standards
- Ensure awareness, involvement and support from the key stakeholders and participants by building strong project teams and maintaining robust communication on the project status throughout its life cycle
- Analyse and resolve technical and application problems.
- Research and evaluate a variety of software products.

Most used technologies:

- C#, Entity Framework, MS SQL Server, Python, JavaScript, Node.js, Java, RabbitMQ, ElasticSearch, MongoDB, MySQL, SQLite, MemCache, AWS

## Zerto

Software Development / Automation Team Leader

August 2012 - May 2016 (3 years 10 months)

Israel

- Definition and implementation of corporate framework for CI/CD based on Jenkins server
- Develop of the automation test solution for system, integration and unit tests.
- Implementation of system and integration tests based on in-house automation solution.
- Decreasing of the deployment and testing cycle by 50%
- Responsibility for both hands-on software development and leading a team of 6 engineers. •Responsibilities include hiring, developing, mentoring and managing a team of software development engineers. Perform code & design review. Implement and maintain a distributed, multi-tenant system on Windows.
- Analyze business requirements and architect scalable, high performing, testable solutions.
- Define delivery phases of the project including activities, sub-activities, and milestones ensuring these are documented and used as the basis for the project event log, issues and risk log and any subsequent reporting

- Ensure awareness, involvement and support from the key stakeholders and participants by building strong project teams and maintaining robust communication on the project status throughout its life cycle
- Participate in reviews and meetings and provide updates on project progress

## Verint

### Senior Software Engineer and Feature Leader

May 2008 - August 2012 (4 years 4 months)

Herzeliya

Developing Lawful Interception solutions for government authorities and law enforcement agencies in VOIP, Mobile Packet Data, Broad Band and Circuit Switch domains.

- Developing server side applications in C++ and C# .Net3.5 on Windows
- Developing software in high performance multi processing/threading environment
- Designing and implementing fault-tolerant, highly available systems
- Developing software using Object Oriented Programming
- Writing requirements and design documents, closing solution with customer and product management and following up process till delivery to customer.
- Communicates design, reliability and maintenance problems to appropriate internal resources;
- Provides effective communication with geographically distributed team members;

## DuplicatePoker Inc

### Software Team Leader at DuplicatePoker Inc

November 2006 - May 2008 (1 year 7 months)

Israel

- Hands on End-to-End Development,
- Technological leader developer
- Writing and design the core product infrastructure based on C# ASP.NET, SQL Server, Design Patterns,TCP/IP, Sockets.

## Interwise

### Senior Software Engineer

January 2006 - November 2006 (11 months)

- Developing the core web site - based on ASP.NET, native ASP and Client side, SQL Server, Javascript, CSS.
- Developing research infrastructure information system.

## CareerHarmony

5 years 9 months

### Software Team Leader

January 2005 - December 2005 (1 year)

Psychological and aptitude testing for job candidates via the web (SaaS).

- Capable of understanding and contributing to the technical solution from design through to code level
- Ensure awareness, involvement and support from the key stakeholders and participants by building strong project teams and maintaining robust communication on the project status throughout its life cycle
- Participate in reviews and meetings and provide updates on project progress
- Technologies included Microsoft.NET (v1.1 and 2.0: C#, ASP.NET, Winforms). .NET Mobile and WAP, SQL Server 2000 multi-threaded services in C++ and use of COM+.

### Software Developer

April 2000 - December 2004 (4 years 9 months)

- Ownership, development of the system key components.
- Work on a wide range of projects involving the implementation of new and existing systems, solutions and processes
- Take responsibility for making key decisions to ensure the successful implementation of all initiatives

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## Education

Admiral Makarov National University of Shipbuilding

Master in Software Engineering, Engineer-Programmer

<https://yogaacademy.co.il/>

Certified Yoga Teacher, Yoga Teacher Training/Yoga Therapy · (June 2024 - December 2024)