Sergiy Synkovskyy

DevSecOps Engineer

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SUMMARY

Experienced DevSecOps Engineer with nearly 20 years of expertise spanning infrastructure design, application development, and security engineering for organizations ranging from startups to multinational corporations. Adept at creating scalable, secure architectures and implementing industry-leading security practices.

ACHIEVEMENTS

- Designed and implemented from a ground up scalable, secure AWS-based architecture, balancing cost efficiency and maintainability.
- Successfully led the SOC2 audit project, including stakeholder education, selection of auditing tools and compliance platforms, and execution of a comprehensive project plan, ensuring regulatory compliance and improved trust with clients.
- Established a company-wide Security Initiative Group to enhance awareness and disseminate best practices in IT security, elevating organizational security culture. Launched a strategic Security Board to address long-term security challenges and streamline decision-making processes.
- Pioneered DevSecOps improvements, such as dependency management using, mandatory code reviews, and security scanning ensuring more secure and streamlined CI/CD pipelines.
- Managed bug bounty and pentesting program to ensure product security, compliance readiness, improved security reports response times.
- Managed infrastructure and security services vendors from selection to offboarding, through price negotiation, onboarding and integration.
- Designed and implemented an Incident Response Plan in collaboration with SRE, DevOps, and NOC teams, improving coordination during incidents and refining post-mortem analyses for enhanced resilience.

TECHNICAL SKILLS

Programming languages: Nodejs/Typescript, Python, Erlang, Go, C, Perl, PHP
Cloud providers: AWS, GCP
Databases: MySQL, PostgreSQL, DynamoDB, Redis, Mnesia, MongoDB, Cassandra
DevOps: Jenkins, GitHub Actions, GitLab CI/CD, Terraform, Puppet, Ansible, Docker, Debian, NPM
Monitoring & Observability: ELK, Datadog, Grafana, Prometheus, InfluxDB
Performance: k9, Gatling
Frontend: React, React Native
Messaging Brokers: RabbitMQ, AWS SQS

SKILLS

Cybersecurity
Solution Architecture
Dev(Sec)Ops
Compliance Management
Engineering Management
Software Development
Technology and Security Evangelism

EDUCATION

BSc, MSc, Odessa National Polytechnic University

2000–2008
Computer Science

Micromasters, SET University

2024 Cybersecurity Management

EXPERIENCE

Wildix, Europe – Principal Security Engineer

February 2024 - Present

Wildix is a telecom company providing VoIP services to tens of thousands customers in Europe and USA. As a first and only security focused engineer in the company I was responsible for company application, infrastructure and IT security.

- Led initiatives to enhance security awareness and establish strategic security processes, including creating a Security Board to address long-term challenges.
- Defined and implemented key security policies (e.g., Secure SDLC, Access Control, Cryptography) and collaborated with stakeholders for effective execution.
- Directed the SOC2 audit project, from stakeholder education to compliance platform selection and successful plan execution.
- Implemented an Incident Response Plan with SRE, DevOps, and NOC teams, improving incident coordination and analysis.
- Managed bug bounty and pentesting programs, enhancing product security and response efficiency.
- Supported DevOps and development teams in adopting best practices for secure product design and operations.

Dfns, France – Head of Infrastructure

Apr 2021 – Jan 2023

Being a third technical hire at Dfns – a startup that builds secure wallet-as-a-service, I was responsible for everything technical: from designing initial architecture to implementing specific features, from deploying initial beta versions, to transitioning to production environment, from supporting the company SOC2 process, to defining and implementing security and DevOps policies.

- Designed and implemented product infrastructure in AWS to ensure scalability, maintainability and cost efficiency.
- Implemented relevant SOC 2 controls and supported the audit process.
- Implemented audited and secure custom access control with just-in-time requests with approvals to AWS infrastructure.
- Managed a team of 2 infrastructure engineers.
- **DevOps and Infrastructure:** IaaC using Terraform, CI/CD with Jenkins, custom automated process for provisioning customer specific parts of infrastructure (Terraform, Spacelift), observability using Datadog, designed and implemented custom release and deployment process, infrastructure cost management, maintained Terraform modules to ensure reuse of architectural patterns.

Cisco Systems, London – Full-Stack Software Engineer

Sep 2017 – Apr 2021

Multiple projects involving frontend/backend and infrastructure development.

- Bootstrapping the project from groud up, including architecture design.

OTHER

SET University, Ukraine – Lecturer, Workshop facilitator

- Distributed systems course
- Solution Architecture course: ‘Quality Attributes’, ‘Achieving quality attributes’ workshops
- Cybersecurity Management course: ‘Supply chain security in software’ workshop

- Typescript
- Rust
- AWS Lambda
- RDS Serverless
- DynamoDB
- SQS, SNS,
- RabbitMQ
- ECS Fargate, Docker
- Terraform

- Led the frontend development.
- Conducted brown bag sessions on React with rest of the company.
- Implemented responsive design for the application.
- DevOps responsibilities – maintaining and deploying infrastructure in AWS.
- Automated infrastructure deployments using Terraform.
- Implemented monitoring using Datadog.
- Invented a solution for inline DLP (Data Loss Prevention) that allowed better user experience when user actions were blocked in modern web applications.

- Typescript
- AWS Lambda
- Terraform
- ECS Fargate

Truphone Ltd, London – Architect, Software engineer, VoIP platform and app engineer, Erlang network engineer

Mar 2015 – Sep 2016

- Designed the architecture for new customer self-service app: frontend in React Native, backend in NodeJS. Led the implementation with the team of 2 engineers, designed integration with other internal services.
- Supported a VoIP calling application: automated and improved repricing process, with the fraud team identified and prevented fraudulent activities, performed necessary upgrade and scaled the platform, worked with customer support team and NOC on fixing any VoIP issues.
- Led the development of a custom version of the app with a recording feature for two large business customers. Designed required platform architectural changes.
- Implemented few PoCs for the new eSIM team using React Native and native extensions that interacted with the SIM SDK.
- Supported and developed real-time instant messaging service in Erlang, ejabberd. Ported custom modules to the new API and developed functional tests covering new features.
- Developed two proof of concept modules for custom functionality.
- Implemented application monitoring for ejabberd using Folsom metrics, InfluxDB and Grafana.
- Planned, implemented and performed major messaging platform upgrade with the minimal service downtime.

- Erlang
- Python
- Cassandra
- React Native, NodeJS
- Grafana
- ejabberd
- Puppet

ScrapingHub Ltd, remote – Erlang developer

Apr 2013 – May 2014

Transformed internal service to a new product offering – downloader service in Erlang for crawling/scraping websites with throttling to avoid bans.

Main responsibilities were:

- Requirements gathering and defining product roadmap
- Full customer support from communication to implementation of custom solutions
- Identifying problem areas, leading improvements development
- Designed observability solution and improved scalability
- Integration with Scrapy - Python scraping framework
- Improved service performance

Developed Scrapy bots in Python and worked on some features of ScrapingHub platform using Django/Python.

- Erlang
- Mnesia
- MySQL
- MongoDB
- Django
- Fabric
- Apt
- Buildbot

Lohika (for Cisco), Ukraine – Senior Antispam Engineer

Apr 2013 – May 2014

Wrote anti-spam rules, did manual spam-rules analysis, and worked on improvement of existing rules. Maintained infrastructure tools for anti-spam analytical data written in Perl. Developed UI for new tools, designing best layout for data representation.

- Perl/Mojolicious
- Mail SpamAssasin
- Perforce

Huffingtonpost Media Group at AOL Inc., Ukraine – Senior Software Engineer

Jul 2008 – Apr 2013

Designed and implemented a data pipeline to gather and process external content from APIs (Twitter, Facebook, sentiment analysis, RSS feeds) for editors, storing results in MySQL and SphinxSearch. Optimized backend workflows with ActiveMQ queues and built APIs for system integration. Collaborated on scalable, fault-tolerant architecture and automated DevOps processes. Maintained SphinxSearch and introduced engineering practices like test-driven development, CI/CD, and Git. Explored new technologies, implementing MongoDB for comments and a WebSocket-based notification service in Erlang. Contributed to backend daemons and frontend PHP development for enhanced functionality.

- PHP
- Perl
- Movable Type
- MySQL
- Memcached
- Erlang
- MongoDB
- SphinxSearch

Lohika (for Palamida), Ukraine – Senior software engineer, team lead

Jul 2006 – 2008

Farlep ISP, Ukraine – Customer Support Engineer, System administrator

Jul 2003 – Jul 2006