




Sergei Shilko

Software Engineer

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 English, Russian, German,
Polish, Ukrainian, Belarussian



BACKGROUND

ABOUT

Hi, I am Sergei Shilko, i graduated in 2010 MS Psychology with study on role of personal characteristics in a successful Software/IT career. Since first year in university i already worked for IT company and now i have more than 10 years of experience in Web/IT engineering. I managed work on multiple software projects ranging from small plugins and internal IT systems to build from scratch backend systems for high load. My expertise domains are Web, Mobile and APIs for backend applications. I like to solve technical and business problems with focus on client requirements and working closely with product teams.

WORK EXPERIENCE

● **Head of Engineering, Tripod Technology GmbH**

Jan, 2019 - Present

Support backend code & infrastructure, grow & manage team, more analytics, long-term goals

- Migrated to PHP 7.3, deprecated and reduced dependencies
- Improved analytics in subscriptions and revenue tracking
- Updated messaging realtime server, reworked authorization, added web/js client support
- Added support for gifting, in-app purchases, subscription hold, grace periods, geo-search
- Integrated NewRelic Infrastructure monitoring
- Designed and implemented scalable cloud-based solutions on AWS
- Increased application infrastructure and performance monitoring automation
- Hired, onboarded and mentored new team members

Head of Engineering, Tripod Technology GmbH

Jun, 2016 - Jan, 2019 ⌚ 2 years 7 months

SRE & Cloud Architecture of backend APIs, IT, Operations, Concept. Reporting and liaising directly with CEO & external stakeholders

- Scaled, monitored and developed all backend infrastructure
- Migrated application services into containers (Docker)



- Experimented with K8S, Rancher, Swarm orchestration
- Built full CI/CD pipeline on AWS Pipeline inc. Blue/Green deployments and AutoScaling
- Promoted AWS Best Practices, AWS Well-Architected
- China and SEA connectivity improved, ICP/Hosting issues resolved
- Refactored, maintained and upgraded application code and infrastructure
- Added more analytics, KPI & revenue, retention and engagement tracking
- Migrated from PHP 5.4 to 7.2, Ubuntu 12 to Debian 9, AWS EC2-Classic to VPC
- Hired, onboarded and directly managed new dev members
- Enforced unit & integration testing, code review & code style policies

Senior FullStack Software Developer, [Tripod Technology GmbH](#)

Jun, 2013 - Jun, 2016 ⌚ 3 years

Mature backend solutions for audio/video (tele)communications software. Developing public API for mobile clients.

- Refactored of old inherited prototype codebase into working product, did first production release
- Celebrated first 50 users sign-up on GA dashboard and first promotions on iTunes
- Implemented json-rpc API for mobile app based on Adobe Flex and added support later for native iOS & Android app
- Deprecate legacy on-premise hosting and migration into AWS EC2-Classic
- Celebrated 2015 Most innovative app of the year (Apple iTunes)
- Implemented custom framework with open-source components
- Reduced API response times from $\geq 2000\text{ms}$ to $\sim 100\text{ms}$
- Implemented critical app functionality: messenger, userfeed, email-reminders, search and more

Lead Software Developer, [Yangutu LLC](#)

Nov, 2011 - Nov, 2012 ⌚ 1 year

Working on web based social network.

- Added API for supporting external 3rd party Game-platform add-on's
- Added AMF Flex/ActionScript API Server for import/export of data to mobile platform
- Added Facebook, Instagram, VK and other social networks integrations
- Extended import/export API's

Contractor, [Cygno Solutions LLC](#)

Sep, 2011 - Nov, 2011 ⌚ 2 months

Short term freelance experience, integrating payment gateways and external API into existing project

- Added PayPal integration into existing project
- Added DineroMail (South America Payment platform) integration into existing project

PHP Developer, [eHarmony, Inc](#)

Aug, 2008 - Sep, 2011 ⌚ 3 years 1 month

eHarmony Reporting and Management Tools for Risk Management team.

- Developed CMS/RMS Internal service from specification to manage and automate risks and fraud detection
- Working with sensitive client payment information
- Extended CMS/RMS service with flexible and configurable multi-role authentication system for different regions
- Added support for localization and translation of CMS/RMS
- Added analytics and audit tools for tracking and optimizing team (users or the CMS/RMS) performance
- Received feedback: UI/UX, bugs, new features suggestions and implemented

Software Developer, IponWeb

Aug, 2007 - Sep, 2011 ⌚ 4 years 1 month

SOAP/Rest API for real-time AD Exchange platform (formerly RightMedia.com)

- Worked on SOAP-API for high-load real-time advertising platform at scale
- Heavily extended and rewrote existing funtional test coverage, integrational e2e testing
- Covered many new edge cases in tests which lead to fixes in critical API parts

Contractor, Yahoo!

May, 2008 - Mar, 2009 ⌚ 10 months

Maintaining RightMedia AD Exchange API migration after Yahoo! purchase

- Refactoring tests, code and documentation, working with remote Yahoo developers team

Intern, Developer, Sinytech LLC

Dec, 2005 - Aug, 2007 ⌚ 1 year 8 months

E-commerce websites for multiple clients/brands

- Learned CGI, HTML, CSS - Web and IT
- Worked on custom CMS
- Integrated VeriSign payment processor
- Extended existing CMS codebase (MVC) with new functionality
- Implemented and released in production multiple e-commerce projects based on common CMS/framework



SKILLS

FrontEnd Development

HTML CSS Javascript jQuery SEO XML

Backend JS Development

NodeJS PhantomJS NightmareScript

BackEnd Development

PHP Go MySQL Redis SphinxSearch ManticoreSearch Docker Beanstalkd
RabbitMQ Gearman AMQP MQTT Puppet Nginx Git PHPUnit Bash Guzzle
MongoDB SOAP JsonRpc

AWS Cloud

EC2 ELB Lambda S3 RDS DynamoDB ElastiCache VPC CloudFront Route 53
API Gateway CodeCommit CodeBuild CodeDeploy CodePipeline CloudWatch IAM
ECR Cognito Certificate Manager WAF & Shield SQS SNS Mobile Hub PinPoint
WorkMail AWS Organizations

Other

Github SVN, Mercurial NewRelic Debian Alpine Linux Amazon Linux Arch Linux
Ubuntu Gentoo Mac OS Facebook API Apple APNS Google FCM Alipay Payments
Baidu PN Google & iTunes Payments Stripe, Paypal Payments OpenTOK
SparkPost, Mandrill Kubernetes



EDUCATION

Psychology , Personal characteristics of successful Software Engineers, Grodnenski
Dzjaržauny Universitet imja Janki Kupaly
Sep, 2005 - Sep, 2010

Cognitive psychology Psychodiagnostics Experimental psychology

Electrical engineering, High voltage electrical relays and automation controls, GGPEK
Technical College
Sep, 2003 - Sep, 2005

High voltage engineering

Electrical engineering, , Community College
Sep, 2000 - Sep, 2003



AWARDS

Yearly city college IT competition 1st place
Awarded on: Jan 01, 2003

Local city contest across different education institutions

Yearly country IT competition 3rd place
Awarded on: Jan 01, 2005

Country contest across all education institutions from all regions

AWS Certified Solutions Architect - Associate (SAA) 3GV5K7KKC14Q17W1
Awarded on: Dec 13, 2018

INTERESTS

Conferences

Belin - AWS Summit 2014

Belin - AWS Summit 2015

Belin - AWS Summit 2016

Berlin - AWS Summit 2017

KubeCon + CloudNativeCon 2018

Berlin - AWS Summit 2019

KubeCon + CloudNativeCon 2019

Podcasts and Forums

Golang - Golangshow

Radio-T

IXBT

Habr

Traveling

Greece

Spain

Georgia

Germany

Poland

Greek islands

Lithuania

Russia

Egypt

Bulgaria

PC Geek

Modding

HTPC

Raspberry Pi

ZX Spectrum

Retro

LAN & Wireless

Reading

Management

Agile

Scrum

Sci-Fi

Fantasy

Horror

Clean Code

TDD

Architecting for the Cloud

Best practices

High performance

IT novels

Marketing and selling high-tech products

Scalable and maintainable systems

Algorithms

Managing successful projects

Building teams

Software architect wisdom

Isaac Asimov

Robert Heinlein

George Orwell

Terry Goodkind

Alan Kuper

Tom DeMarco

The Code Culture

eSports

Twitch

International

Competitive teams

Broadcasting

Analytics



REFERENCES

Arnd Aschentrup / CEO Tripod Technology GmbH