



Sergei Shilko

Head of Production Services. AWS Certified Solutions Architect



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English, Russian, German, Polish,
Ukrainian, Belarussian



BACKGROUND



ABOUT

2010 graduate Masters Psychology with study on successful careers in IT. 15 years programming, in Berlin since 2013. AWS Certified Solutions Architect.



WORK EXPERIENCE

● Head of Production Services, [Tripod Technology GmbH](#)

Mar, 2021 - Present

Ensure that the business is capable of building and running software at scale

Head of Engineering, [Tripod Technology GmbH](#)

Jan, 2020 - Mar, 2021 ⌚ 1 year 2 months

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

- Migrated backend to PHP 7.4 Go 1.14 Docker 19, PHPUnit 9
- Supervised development of serverless microservices Java/Kotlin/Golang & DynamoDB
- Split monorepository into multiple separate repositories with separate CI/CD
- Reduced AWS operation costs
- Executed multiple refactoring projects in code, infrastructure, raw storage and databases
- Developed more application features, growth analytics and internal tooling, while reducing overall codebase amount and increasing quality
- Architected new high-performance group messaging backend with Kafka, Cassandra/MCS, DynamoDB
- Improved cross-team cooperations, JIRA usage patterns
- Created backend 2020 Roadmap, Technology Radar (ThoughtWorks)
- Hired for new AI/ML, DevOps roles
- Launched new Tandem Certificates product

Head of Engineering, [Tripod Technology GmbH](#)

Jan, 2019 - Jan, 2020 ⌚ 1 year

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 functional 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

BackEnd Development

PHP Go MySQL Redis SphinxSearch ManticoreSearch Docker Beanstalkd RabbitMQ AMQP
MQTT Puppet Nginx Git PHPUnit 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 Git, SVN, Mercurial NewRelic Debian, Alpine, Amazon, Arch, Ubuntu, Gentoo, ... Linux Mac OS
Facebook API Apple APNS Google FCM Alipay Payments Baidu PN Google & iTunes IAM & Subscriptions
Stripe, Paypal OpenTOK, WebRTC 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

AWS Certified Cloud Practitioner 3B28554BK2EQ1PSD

Awarded on: Nov 21, 2020

AWS Certified Solutions Architect - Associate (SAA) 3GV5K7KKC14Q17W1

Awarded on: Dec 13, 2018

Telc Deutsch B1 Zertifikat 0503718

Awarded on: May 01, 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
- Microservices Patterns

eSports

- Twitch
- International
- Competitive teams
- Broadcasting
- Analytics



REFERENCES

Arnd Aschentrup / CEO Tripod Technology GmbH