Denis O. Vodopianov

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Skills

Programming Languages:	Kotlin, Java, Scala, Experienced with Python and Typescript, Familiar with Go
Web Frameworks:	Spring Boot, Vert.x, Netty, Play, Express.js, Gin
DevOps:	Docker, Kubernetes, Terraform, Ansible, Jenkins, Gitlab CI/CD, Argo CD, Datadog, ELK stack, Grafana, Prometheus
Databases:	Postgres, Mongo, DynamoDB, Cassandra
Networking:	TCP/IP, HTTPS, WebSockets
Big Data:	Hadoop, Hive, Pig, Hbase, Clickhouse, Storm, Spark, Airflow

Work Experience

Picsart January 2022 - March 2023
Senior Software Engineer II (Lead developer) Berlin, Germany

- The team had full ownership of user tracking component in the analytics platform with strong focus on scalability and performance.
- Optimised the event ingestion component, reducing fleet size and freeing up resources for new projects.
- Implemented an edge component with pluggable authentication and back-pressure mechanisms for analytics platform using an Envoy-based API gateway, implemented HMAC-based authentication for SDK clients.
- Reduced mean deployment time by 10x and halved change failure rates. This was achieved by moving backend services to trunk-based development and implementing common, reusable CI/CD pipelines with continuous/on-demand live deployment.
- Implemented various safety nets, including quality gates, comprehensive automated tests, feature flags and alerts on SLOs to effectively identify and resolve deployment issues while moving fast.
- Mentored software engineers, fostering their growth and creating strong commitment to ownership, improved code quality and reduced technical debt.
- Conducted several trials to replace costly third-party services and worked with the ML team to show that the company could achieve the same results with the right components while saving significant money.

N26 GmbH March 2020 - January 2022
Senior Software Engineer, Acting Tech Lead Berlin, Germany

- The team had full ownership of identity platform with strong focus on security, scalability, reliability and compliance.
- Implemented strong customer authentication to achieve full compliance with PSD2.
- Designed and implemented a number of foundational authentication mechanisms for product teams to utilise across various n26 products.
- Automated access recovery processes for non-German customers improving overall user experience and cutting operational costs.
- Actively participated in on-call rotations and incident response, addressing critical issues and minimizing downtime.
- Worked closely with product and ML teams on in house R&D projects, resulting in the creation of a roadmap that incorporated valuable insights to enhance security of the identity platform.

Freelance, Contractor September 2018 - February 2020
Lead Software Engineer at Plutus.ai Saint–Petersburg, Russia

- Led a team of 5 engineers to deliver casual crypto portfolio with near real-time market data, daily challenges and social elements.
- Within a short timeframe identified and resolved system scalability issues to meet the demands of a growing client base, ensuring the system could handle increased workload and accommodate future growth effectively.

- Delivered a strategic initiative of enhancing internal gamification mechanics by providing near real-time dashboards, leaderboards and daily challenges.
- Successfully developed a framework for fast and hassle-free integration with exchanges and news feed partners. This helped to reduce integration time and effort, enabling the organisation to rapidly expand its network of partners and market coverage.

Nexign Systems   August 2017 - September 2018
Lead Software Engineer   Saint–Petersburg, Russia

- Led the development and testing processes in a team of 7 engineers, ensured seamless execution and delivery of software updates, minimising downtime and service disruptions.
- Worked closely with the product team to execute a successful legacy PRM system refresh aiming cloud deployment and improving its efficiency and protecting it against evolving industry demands.
- Design a standard load testing framework that provided crucial insights for optimising system performance and ensuring its ability to handle increasing loads at peak usage periods.

Contractor, multiple clients   June 2014 - August 2017
Senior Software/Data Engineer   Saint–Petersburg, Russia

- Developed a trusted relationship with senior leadership at a client specialising in the analysis of digital advertising placements, fostered a strong partnership that resulted in improved collaboration, alignment of goals, and enhanced client satisfaction
- Designed and delivered a system for controlled testing and release of statistical and ML models. The system significantly reduced mean deployment time and risks associated with model deployment and provided valuable insights for enhancing models performance and accuracy.

Oracle   November 2012 - June 2014
Software Developer in Test, Java JDK   Saint-Petersburg, Russia

- Designing comprehensive tests for multiple features including potential and real security vulnerabilities.
- Improved stability and performance of the testing framework, enhancing overall productivity and reliability in the testing process.
- Led Nightly build report analysis, implemented a number of system enhancements, that helped to automate report generation, resulting in improved efficiency and accuracy in bug triaging and resolution

Education

ITMO University   Saint–Petersburg, Russia
September 2004 - February 2010

Degree: Master's degree in Optical Electronic Devices and Systems with specialisation in Optical-Electronic Devices and Systems for Video Information Processing
Qualification: Engineer

Projects

A/B Experimentation and User Tracking Platform   2022-2023
   Tools: Typescript, Kafka, Kotlin, Java, Mongo, Redis, Envoy, AWS, k8s
   Description: Highly scalable system capable of handling billions of events per day
               and peak load up to 200k eps

Identity platform for a challenger bank   2020-2022
   Tools: Kotlin, Java, AWS, Terraform, Kubernetes, Redis, Kafka, Go.
   Description: Highly scalable and resilient system capable of handling millions of authentication and
               authorization requests per day

ML deployment platform   2015-2017
   Tools: Python, Scala, Java, Airflow, Hive, Spark, Hbase, Kafka, Parquet, Avro and a dozen of glue tools
   Description: Platform for statistical and ML models production deployment with support of AB testing
               and model versioning