



Yurii Ostapchuk

Software Engineer

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SUMMARY

An enthusiastic and dedicated engineer with 8+ years in the industry. Hands-on experience and thorough understanding of all aspects of software development process - from requirements collection to end-to-end architecture design, from coding to solution delivery. A number of teams and environments that Yurii worked in throughout his career gave him leadership and mentoring skills, a wide range of technical skills, ability to adapt to fast-paced environment, great communication and cooperation skills. He considers software development as an art and creativity – and, as every artist enjoys the result, he gets a huge satisfaction of being engaged into solving problems, working with the team, facing new challenges. At the moment Data Engineering and Machine Learning are the main fields of ongoing hands-on experience and interest. Yurii has proficiency with various tools, frameworks and platforms for building data lakes and data warehouses (Hive, Presto, AWS Redshift, Athena, Glue, S3), real-time processing and real-time analytics (Kafka, Spark, AWS EMR, Kinesis), interactive analytics and data mining (Zeppelin, Jupyter, Tableau, Elasticsearch & Kibana, SQL), orchestration and containerization (CloudFormation, Docker, Terraform). Have strong background with Scala and functional programming languages, JVM platform, Unix systems, AWS, microservice architectures, front-end & back-end web development. Looking for an opportunity to deliver creative solution to business, be part of talented team. Hungry for a new challenges and fresh experience.

Conference speaker, Scala courses teacher. Open source software contributor, fun of ergonomics, Emacs and Vim adept.

TECHNICAL SKILLS

Industries	AdTech, Renewable Energy, O&M, Healthcare, Financial, Health & Fitness, IoT, Online Media
Programming Languages	Scala, Java, Python, SQL, ES6, Bash, Kotlin, Go, Functional Programming, OOP, Design Patterns, ELisp
Libraries & Frameworks:	Spring, Akka Actors, Akka Streams, Scalaz, Shapeless, Cats, Apache HTTP, Apache Tomcat, Apache Shiro, Google Guice, Spring IoC, cake pattern, ScalaTest, Specs2, ScalaCheck, Mockito, PowerMock, JUnit
BigData / ML / Analytics	Spark, Hadoop, EMR, Hive, Presto, Confluent Platform, Kafka, Kinesis, Athena, Glue, HBase, TensorFlow, Tableau, Jupyter, QuickSight, Redshift, Elasticsearch, Avro, ORC, Parquet, Kibana, Zeppelin, Amazon Lex, Amazon Comprehend, Personalize
Storage, Data Access:	PostgreSQL, Aurora, MongoDB, Cassandra, HDFS, HBase, MySQL, Slick, Casbah, JDBC, JPA, EclipseLink, Jooq, quill, Hibernate, Redshift, MemSQL, Elasticsearch, Redis
OS, Containers, Virtualization:	Amazon Linux, Ubuntu, Arch Linux, CentOS 6, Docker, VirtualBox, ECS, systemd
Embedded / Hardware / Low-level:	ARM platform, Arduino, CUDA, NVIDIA Jetson TX-2
Cloud:	AWS, GCP
Build, Deployment, Automation, Monitoring:	SBT, Maven, Ant, Jenkins, TeamCity, DataDog, VictorOps, Terraform, Grafana, OpsGenie, Go pipelines
Web Technologies and Frameworks:	ReactJS, FireBase, AMPLify Play Framework 2, REST, Dropwizard, Jersey, ReactJS, npm, HTML5, SCSS, ES6, Apache Velocity, JSP/Servlets,

	Websockets, CoffeeScript, Angular2, gulp, bower, webpack, yarn, NodeJS, express.js, WebRTC
Tools & Other:	Git, SVN, GitHub, Jira, Redmine, Vim, Emacs, ENSIME, screen, JIRA add-ons, Eclipse RCP, IntelliJ IDEA plugins, Metals, bloop, LSP, zsh, curl, tmux, org-mode, plantuml

EXPERIENCE

09/2019- present

[Romexsoft, TrinityAudio.ai, Tel-Aviv / Lviv, UA, Team Lead, Data Engineer](#)

My responsibility as a Team Lead and Data Engineer was to manage a team, discover, design and communicate data pipeline solutions which backed some of the client's businesses in AdTech and Online Media industries. System had to withstand loads up to 100k events per sec., demanding real-time analytics, long-term storage and fast ad-hoc querying. Solution involved designing data lake, streaming processing and access layers with analytical front-ends. Since my involvement client was able to reduce costs on existing data pipeline by up to 5 times, as well as to develop new optimized pipeline which is backing client's new businesses.

Being a leader of BigData solutions department within vendor company I took an active participation in building and shaping marketing strategy for company's [BigData services](#), as well as developing knowledge within a company by giving regular lectures on data engineering topics.

12/2017 - 09/2019

[Ricker Lyman Robotic, USA / Lviv, UA](#)

Ricker Lyman Robotic is a product&services company with an expertise in Big Data, Data Science, Streaming microservices and IoT. The main strategic product of the company is [Hivecell](#) which is a small computer for the Edge, providing hardware & software platform for solving computational problems at the edge.

During the work in the company, have been growing as a Data Engineer, strengthen knowledge in Big Data, Machine Learning. Actively participated in developing Hivecell product, gaining knowledge in embedded & ARM platforms, strengthen knowledge of Unix systems. Involved in a various company development initiatives.

12/2017 - present: [Hivecell](#), Software Engineer

Hivecell is a small, low-energy, inexpensive servers which are designed for distributed software, can stack easily on a desktop and are easily scalable. The product is not just a hardware but also a software platform and ecosystem which allows one-click deployments, DevOps-as-a-service, monitoring and managing software frameworks. This enables quicker distributed software prototyping as well as deployments at the Edge for solving computational problems and providing live service. The project required diverse engineering skills going from low-level hardware integration and Linux Kernel tweaks to custom monitoring and management software to native software development to AI & Big Data frameworks set up. Responsibilities included architecting parts of the platform, working on its implementation, leading discovery and investigation phases for the product features, working on POCs for potential clients.

12/2017 - present: Data Engineer, TL

The project was a Data Lake solution for NY-based hedge fund company. This included creating of the streaming pipeline for processing, cleaning, transforming and loading the data into DWH, building governance platform, supporting existing ingestion services. The cooperation with the client involved tight integration into their organization processes, frequent business trips, elaborating and leading the technical solutions for building data platform. The solution was AWS based,

The direct responsibilities on the project involved implementing parts of the pipeline from the ground up, communicating with the client and elaborating the technical solutions, leading the development of some of the functional parts of the system.

12/2017 - 04/2018: Data Engineer

The aim of the project was to automate existing and create new data analytical insights for the client in the healthcare industry. This involved integration with existing data warehouse, developing custom analytics, visualizing it in Tableau, testing and deploying the solution into existing client's infrastructure.

Other accomplishments:

- UCU Data Science Summer School 2018
- Certified Google Cloud Associate Engineer
- "Functional and Streaming programming in Scala" course at Ukrainian Catholic University - teacher

12/2015 - 08/2017

KryptonCloud, SF - Lviv, UA / Remote

Young start-up in the field of O&M (Operations and Maintenance) aimed to increase asset performance and improve productivity for O&M organizations.

Being a part of distributed team with core team in San Francisco and offices in St. Pete and Lviv - was constantly delivering ready to push functionality, designed from ground-up, implemented and tested new product features. Maintained live production environment as a part of a first line support team. Contributed to the foundations of architecture and infrastructure of the system being developed.

The core area of responsibility was developing and maintaining Web Back-Office application and first line support. Responsibilities included daily communication with a product team, capturing business requirements into design documents, working on implementation as a part of engineering team.

12/2015 - 08/2017

Crossroad Labs, Lviv, UA

Young outsourcing company with its aim to help young start-ups grow by providing various services including consulting, R&D and software development. Came into company at the very beginning (4 employees) and went with it actively contributing to its growth (up to 20 employees). Active participation in the company development as being one of the team leaders. Contributed into developing of HR department, was one of the initiators of creating knowledge-sharing company sessions.

09/2012 – 12/2015

ELEKS Ltd., Lviv, UA

Middle-size local outsourcing company at which the career was started. Went through a number of different projects in the area of Healthcare, Financial, Commercial growing from a junior Java developer into strong middle Scala developer. Was actively contributing and maintained company's internal projects – specifically internal tooling for time tracking.

12/2014 – 10/2015: Scala Developer

The project was a distributed application for managing gyms. It included user management, nutrition management, trainings management and scheduling functionality for the clients and coaches. It included integration with different measurement devices and biometric devices for access control. The project included client front-end, back-end application and a module for user authentication using biometric devices. Back-end application was written using 'reactive', event-driven approach in a strict non-blocking way with intense usage of pure-functional patterns in Scala. Play2 was used as the main back-end

framework. For data access was used Slick3 library. For implementing business logic - much of functional and type-level patterns, using Scalaz and Shapeless libraries, were used.

- Active participation in work planning, estimation and analysing requirements
- Functional programming approaches using Scala, Scalaz and Shapeless
- Working on designing actor systems and event-driven approaches using Akka
- Unit and integration testing using Specs2. Property-based testing using ScalaCheck

10/2014 – 12/2014: Scala Developer

The project was Atlassian Connect add-on for Jira OnDemand for synchronizing between Jira and some internal reporting system. Basically, it was a RESTful service application, written in Scala with Play2, Slick2 in asynchronous way. It included integration with Jira using Atlassian Connect technology and synchronizing user worklogs with some internal reporting system.

- Designing application from scratch, heavy usage of Play2 framework
- Performing basic duties of team-lead with small team of two trainee scala-devs. Estimating, task management.

04/2014 – 10/2014: Java Developer

The project was a web-application for peer-to-peer video conferencing for medicine sphere. It included client&expert user management, registration payment functionality, user calendar, which allowed meeting scheduling and p2p video callin. It has Wordpress as content&user management system and Java backend for signalling and calendar-scheduling functionality. For p2p call functionality was used WebRTC and STUN-TURN technology. Play framework was used as the main java-backend framework. Akka actor system was used for signalling and connection management. The main front-end framework was Angular.js.

- AWS management, STUN-TURN server, maintenance.
- Java backend: DAO layer, Akka actor system development, calendar, payment functionality.
- Mail sending with iCal appointment attachments.
- Wordpress and Java integration, single sign-on.

12/2013 – 01/2013: Scala Developer

The project was an add-on for JIRA tracker for automated creation of issues based on some statistical information received from server. It provided functionality for receiving and accumulating statistical information in db and showing it on UI.

09/2013 – 11/2013: Scala Developer

The project was a connector between JIRA and some internal issue tracker in the form of JIRA add-on. It was developed using functional programming language Scala. It provided functionality to automatically synchronize JIRA reports with internal reporting system. It included convenient UI contributions to JIRA and back-end part for synchronizing and storing synchronized records in db.

06/2013 – 04/2014: Java Developer

The project was a trading platform which was a desktop application based on Eclipse RCP technology. It included customer UI, which allowed either manual trading or trading using algorithms, and server-side part of application which provided execution of trading algorithms close to exchange and communication with client. It allowed trading on different exchanges using different connectors through different trading protocols. It also included functionality for testing and optimizing trading algorithms and corresponding JavaFX chart for viewing algo performance and statistics.

09/2012 – 05/2013: Junior Developer

This project was a cloud-hosted virtual environment with a web back-office system and customer front-end for traders to allow development, testing and execution of trading algorithms. ELEKS delivered the cloud-based trading platform from scratch. The back-office part provided customer account and price

management functionality, and the front-end part provided viewing customer reports, resource and financial usage, and payments.

EDUCATION

MS in Applied Mathematics, Institute of Applied Mathematics and Fundamental Sciences, Lviv Polytechnic National University, Lviv, 2013.

LANGUAGES

- English – working proficiency
- Russian – near native
- Ukrainian – native

PERSONAL

Travel, guitar, swimming, hiking, healthy living