

Iulian Turcanu
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Technical Skills

Backend & Languages: Java, Scala, Python, Spring Boot, Play Framework, Akka, Guice, REST APIs, JWT

Frontend & UI: React, JavaScript, TypeScript, JSP, jQuery, HTML, CSS

Databases & Messaging: PostgreSQL, MySQL, Firebase, Kafka, Solace

Cloud & DevOps: Docker, Kubernetes, AWS, Google Cloud, Jenkins, GitHub Actions, Bitbucket Pipelines, Bamboo, Mesos

Monitoring & Visualisation: Grafana, Datadog, OpenTelemetry, Power BI, R/Shiny

Tools & Version Control: Git, Maven, sbt, Postman

Work Experience

Triton Digital | November 2023 – April 2025 Backend Software Developer

- Built and maintained distributed backend services in Scala and Java, leveraging Akka actors and streams to process large-scale, high-availability Kafka topics in real time.
- Designed and implemented Play Framework APIs integrated with Akka for asynchronous request handling and customer data validation, ensuring low latency and high throughput.
- Optimised ad delivery pipelines by implementing advanced, actor-driven filtering logic for improved efficiency and scalability.
- Led the integration of OpenTelemetry to enhance end-to-end observability across distributed systems.
- Developed a custom metric management mechanism to control tag cardinality in Grafana dashboards.
- Migrated monitoring infrastructure from Datadog to Grafana, ensuring resilient observability for high-availability services.

Solace | November 2021 – September 2023 Full Stack Software Developer

- Developed REST API services within a microservices architecture using Spring Boot/Java and MySQL.
- Built and deployed monitoring capabilities using Datadog.
- Enhanced application performance through tracing with OpenTelemetry collector for APM.
- Collaborated closely with cross-functional teams to resolve client issues.
- Improved Jenkins release and rollout pipelines for better failure management.
- Created user-friendly UI/UX solutions using React and Typescript.
- Managed container orchestration with Kubernetes for efficient application deployment.

TrueContext (formerly ProntoForms) | May 2021 – November 2021 Backend Software Developer

- Developed REST API services for an enterprise-level web application using Java, Spring, JPA, and Hibernate/MySQL, following TDD principles.
- Designed and implemented REST APIs for seamless integration with external services like Google ReCaptcha V3.
- Investigated and resolved issues related to third-party document rendering integration.
- Created UI solutions using JSP and JavaScript/jQuery.
- Deployed applications using AWS services (Beanstalk, EC2, RDS, S3, SQS) and Docker.

Canadian Institutes of Health Research | January 2020 – August 2020 Junior Analyst – Funding Analytics

- Developed data processing scripts for analysis and visualisation in R.
- Built R/Shiny dashboards for web-based data visualisation.
- Emphasised storytelling in visualisations for better data interpretation.

Education

- Algonquin College | Computer Programmer Diploma | GPA 3.72/4 | 2018-2020
- State University of Medicine and Pharmacy, Moldova | Bachelor's of Health Sciences | 2009