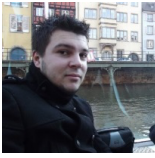# Andrei Straut

Lisbon, Portugal
https://www.andreistraut.info/#contact

PROFESSIONAL EXPERIENCE

tb.lx (formerly Daimler Trucks and Buses Tech and Data Hub)

December 2019 – Present
Automotive
Senior Software Engineer and Team Lead, Global Services Architecture

As part of tb.lx, a startup created by Daimler to focus on creating more sustainable models of transportation, I am working with on developing a global, at-scale platform, able to handle telemetry data from connected trucks and buses from the whole group, and create data-driven, customer centric products for the whole industry.

We offer a global platform through which our business partners can access data (both raw and aggregated) from their connected devices. We provide insights into mobility patterns, driver behavior, electric vehicle usage and range prediction.

Our stack runs on Kubernetes (AKS), and is developed on JVM languages (Kotlin, Java, Scala), inside Docker. We are heavy users of Kafka, Flink, and Spark, we monitor our infrastructure and applications using Azure Log Analytics, Prometheus and Grafana, and we test and deploy our products using Azure Pipelines.

Talkdesk, Inc

May 2018 – December 2019
Call Center Platform
Software Engineer, Agent Presence Initiative

At Talkdesk (a fully microservice-oriented Call-Center-as-a-Service), I was involved with several services and APIs, contributing all the way from components with near-realtime requirements (Agent Presence, built on Elixir with Phoenix, MQTT, Docker, Kubernetes, Websockets), to taking Data Science models to production, at scale, with Scala, Kotlin, Spring Boot and PostgreSQL.

Across both initiatives I participated in all feature life cycle phases, from effort estimation, planning and design, to implementation and subsequent issue correction. We dealt heavily with realtime APIs, high-availability services, distributed systems, resiliency, and scalability.

Coriant, Gmbh

January 2016 – May 2018
Telecommunications
Lead Software Engineer / DevOps Engineer, DWDM Network Planning

As a Lead Software Engineer within the Network Planning team, my main responsibility was design, implementation and maintenance of business-specific algorithms and features, centered on the Routing and Wavelength Assignment domain, using Java as a development language, Git as the version control system, and Jenkins as the Continuous Integration environment.

I was also, on my own initiative, responsible for the introduction of several productivity, visualization, and statistical analysis tools, most of them the result of personal software development off-Coriant. These tools were implemented using a large array of languages and technologies, ranging from Java to Python and AngularJS, and from WebSockets to WebServices.

I mentored new additions to the team, explaining the business domain, project architecture and code, helping to integrate them into the Network Planning (and larger Coriant) team.

Coriant, Gmbh (External Contractor by Rupeal, Lda)
April 2013 – December 2015
Telecommunications
Software Automation Engineer, DWDM Network Management

IT&S, SA
January 2012 – December 2012
E-commerce
Software Engineer

Aceora Software, Inc
December 2010 – January 2012
Custom Software Solutions, Outsourcing
Junior Software Developer

PERSONAL PROJECTS

Personal Website

https://www.andreistraut.info/

Personal presentation and showcase website, where I occasionally post updates and projects I'm working on. Code publicly available on GitHub.

GAPS – Genetic Algorithm Path Search

https://www.andreistraut.info/gaps

Project exploring path searches in graphs using genetic algorithms. Built with strong focus on UI and ease of use, allowing a user to explore and compare various possible paths within a network, from a traditional perspective (Djikstra) and out-of-the-box implementation using genetic algorithms. Code publicly available on GitHub.

Monkins – Multiple Jenkins Monitor

https://www.andreistraut.info/monkins

Project aggregating job statuses from different and separate Jenkins CI servers, and displaying them in a unified radiator view. Code publicly available on GitHub.

EDUCATION

Software Engineering, BAC+4

Automation, Computers, Electrical and Electronic Engineering College, Galati, Romania

2007-2011

Mathematics-Informatics bilingual English, BAC

"Mihail Kogalniceanu" National High-School of Galati, Romania

2003-2007

SKILLS & ABILITIES

Certifications

Oracle Certified Java SE 8 Programmer 1 (1Z0-808)
Cambridge English: Advanced (CAE)

Other

Programming languages: Kotlin, Java (SE / EE / Android SDK 10 - 13), C# (.Net Framework 4.0), PHP (Zend Framework, Magento), SQL / PL-SQL (mySQL, PostgreSql, Oracle), NoSQL (MongoDB), Python
Web: JavaScript, Angular/AngularJS, Bootstrap, Jquery, HTML, CSS
Testing: jUnit, MS UI Automation, Robot Framework, Selenium
Build tools and CI: Ant, Maven, Jenkins
SOA: REST, SOAP
OS: Windows, Linux
Team Development: SVN, Git, Perforce
Design and modeling: UML
Tools and IDEs: Eclipse, IntelliJ, NetBeans, Visual Studio 10
Other: Spring Boot, Hibernate, XML/XSLT, JSON, WebSockets, Oracle E-Business Suite 11g

LANGUAGES

CEFR Scale:
Romanian: native
English: C2
Portuguese: C2
French: B1

CAUSES AND HOBBIES

International Red Cross Volunteer (via Romanian branch), 2004-2012
AIESEC Volunteer, 2009-2010
Professional indoor volleyball player (INATEL league)
Everything tech-related