

DAMIAN SIŃCZAK



CONTACT

Location
Łódź, Poland

Phone
+48 728 866 012

Email
damian.sinczak@gmail.com

Website
www.damiansinczak.dev

LinkedIn
linkedin.com/in/dsinczak

GitHub
github.com/dsinczak

SKILLS

Engineering practices
Applied AI Engineering, Testing and Performance Engineering

Software architecture
Systems Design and Integration, Polyolith

Cloud engineering
Infrastructure as Code and Delivery

Programming languages
Java, Clojure / ClojureScript, Scala

Data platforms
Snowflake

Application frameworks
Spring

Workflow orchestration
Temporal

Distributed systems frameworks
Akka

Reactive programming
Project Reactor

Persistence and database tooling
jOOQ

BIO

I'm a senior software engineer and architect with 17 years of experience building and modernizing backend systems across fintech, banking, automotive, telecommunications, and data-intensive platforms. Most of my career has been spent in the JVM ecosystem, particularly Java, Scala and Clojure, working with distributed systems, cloud infrastructure, and the messy reality of legacy software.

AI-assisted engineering is now part of my everyday work, not a side experiment. I use tools such as GitHub Copilot and OpenCode extensively throughout the SDLC: understanding unfamiliar code, exploring designs, implementing and refactoring features, writing tests, reviewing changes, troubleshooting problems, and producing documentation. This hands-on experience has led me deeper into applied AI product engineering, including LLM tooling, agents, evaluation workflows, context and memory systems, automation, and AI-native product experiences.

I bring a systems engineering mindset to AI, with a strong focus on reliability, observability, data flow, feedback loops, and the production infrastructure required to make these tools work consistently. I enjoy digging into difficult problems, asking awkward but necessary questions, and finding solutions that hold up in production.

EXPERIENCE



Vertex Inc.

Senior Clojure/Java Developer - Contract

June 2021 - Present · King of Prussia, PA / Remote

- Joined Taxamo as a senior engineer and quickly became productive in Clojure, contributing across the full software development lifecycle.
- Helped integrate Taxamo's indirect-tax product into the Vertex platform following its 2021 acquisition, including integration with the OSeries tax calculation engine.
- Extended a high-volume reporting service to support Snowflake alongside AWS Athena, translating platform-specific behavior while preserving reporting consistency.
- Extracted reporting capabilities from a 25-year-old monolith into a scalable, multitenant service. Delivered the first production release within six months while acting as the primary developer.
- Currently consolidating Taxamo reporting into the shared Vertex reporting platform, giving products across the portfolio a consistent reporting experience.



AVILOO

Yoda Java Engineer - Contract

October 2020 - June 2021 · Vienna, Austria

- Built core capabilities for AVILOO's independent EV battery diagnostic platform, working across development, analysis, deployment, and testing with real vehicles.
- Developed mechanisms for collecting and storing vehicle data, performing multistage battery analysis, and detecting potentially fraudulent tests.
- Delivered customer-facing and back-office interfaces supporting the complete battery-testing workflow.
- Worked extensively with Java and Project Reactor on a reactive platform processing high-volume telemetry from electric vehicles.
- Took end-to-end ownership across the SDLC in a fast-moving startup environment, from initial design to production operation.



Luminor Latvija

Technical Leader - Contract

April 2020 - October 2020 · Łódź / Remote

- Developed retail and commercial banking services during Luminor's consolidation of the former DNB and Nordea Baltic operations onto a shared AWS platform.
- Worked across reactive financial workflows, integrations with mainframe transaction-processing systems, and Kubernetes-based application delivery.

Relational databases

PostgreSQL

Build system

Maven, Gradle

Cloud provider

AWS

Container orchestration

Kubernetes, Docker Compose

Containerization

Docker

EDUCATION

Lodz University of Technology

Master of Science, Software Engineering and Artificial Intelligence
2004 - 2009

Warsaw University of Technology

Graduate, IT Project Management
2010 - 2011

LANGUAGES

Polish (native)

English (fluent)

- Standardized Spring configuration and deployment practices across multiple applications, bringing them closer to the 12-factor application model.
- Refactored Project Reactor services to establish consistent reactive-programming patterns across teams.
- Introduced shared application-resilience standards using Resilience4j, including circuit breakers, retries, and bulkheads.



IDEMIA

System Architect

February 2019 - May 2020 · Łódź, Poland

- Led the architecture of a GSMA TS.43-aligned platform for activating and managing mobile-network services, including companion devices such as smartwatches.
- Designed secure, operator-agnostic processes that met GSMA requirements while accommodating different mobile operator systems and integration models.
- Helped pioneer AWS adoption within IDEMIA, shaping the application's deployment, security, observability, and testing practices.
- Designed an internal chaos-testing framework that injected AWS infrastructure failures and verified the platform's resilience in lower environments.
- Guided the project from early development toward production readiness as its system architect.



HARMAN International

Principal Engineer

August 2018 - January 2019 · Łódź, Poland

- Led a six-person engineering team developing an in-vehicle connectivity service for Volkswagen's MEB electric-vehicle platform.
- Designed bidirectional communication between vehicle systems and Volkswagen's backend, supporting remote commands and exposing vehicle status to drivers.
- Modelled the service as a finite-state machine and designed a vehicle-independent test environment.
- Improved communication with other ECUs to tolerate transient failures, retries, and device restarts.
- Presented the architecture, implementation, documentation, and test strategy to Volkswagen's infotainment architects.



IDEMIA

Senior Software Engineer

February 2017 - July 2018 · Lodz, Lodz District, Poland

- Developed SM-DP and SM-SR components implementing the GSMA M2M eSIM remote-provisioning architecture.
- Worked on secure preparation, delivery, and lifecycle management of operator profiles for remotely deployed eUICCs.
- Designed cryptographic and key-management workflows backed by hardware security modules in IDEMIA's private data center.
- Addressed HSM throughput constraints through asynchronous processing, queuing, and Akka-based concurrency.
- Improved the resilience and recoverability of stateful provisioning workflows where data loss could leave remote devices unreachable.
- Learned Scala and functional programming while helping move the platform onto Kubernetes in IDEMIA's private cloud.



Commerzbank Digital Technology Centre Poland

Software Engineer

February 2015 - January 2017 · Lodz, Lodz District, Poland

- Joined CERl as the first software engineer in a pilot intended to establish software-development capabilities for Commerzbank in Poland.
- Took ownership of a legacy cash-logistics platform supporting cash inventories, orders, deliveries, service contracts, and forecasting for German branches and self-service devices.
- Stabilized and modernized an old Ant-based Java application, building the test coverage needed to change it safely.
- Helped turn the pilot into a larger engineering operation by earning stakeholder trust, growing the local team, and taking ownership of additional projects from Germany.
- Applied Domain-Driven Design to understand a complex banking domain and guide the application's gradual modernization.



TomTom

Senior Software Engineer

August 2013 - January 2015

- Developed large-scale pipelines for converting TomTom map data into automotive navigation formats.
- Designed divide-and-conquer workflows that partitioned geographic data, processed independent layers concurrently, and merged dependent results in the correct order.
- Worked with complex geospatial data using Java, Spring, PostgreSQL, PostGIS, and JTS.
- Helped adapt map-conversion applications during TomTom's transition from file-based map data toward a shared, continuously updated platform.
- Built distributed batch-processing workflows with Hadoop and Apache Crunch for very large map datasets.

COMARCH

Comarch

Mobile Android Developer

January 2012 - June 2013

- Researched Android as an emerging enterprise platform and built the initial native mobile application for Comarch's Field Service Management product.
- Led the application from proof of concept to a full-scale product for managing technicians' work orders, resources, and on-site equipment tests.
- Acted as technical lead and hands-on developer, owning the mobile architecture, implementation, and development planning.
- Conducted on-site workshops with existing and prospective customers to understand field-service workflows and deployment constraints.
- Translated customer requirements into HLD and LLD documentation and an architecture capable of supporting future implementations.

COMARCH

Comarch

Software Developer

March 2009 - March 2012

- Began my professional career through Comarch's paid internship program, delivering a backend-controlled update proof of concept for a Windows Mobile CRM application.
- Worked as a backend developer on the deployment of Comarch's CRM platform for wRodzinie, a newly established Polish mobile virtual network operator.
- Designed and implemented billing and reconciliation capabilities for Nokia Life Tools, supporting one-time purchases and subscriptions.
- Integrated with widely varying mobile-operator systems through FTP and flat files, SOAP services, messaging, and synchronous and asynchronous payment workflows.
- Combined analysis, architecture, development, and on-site delivery across Asia and Africa before expanding into the Nokia Life Tools content-management and delivery platform.

PUBLICATIONS

Clojure for brave and true

2024-01-23 · Java User Group Łódź
facebook.com/groups/juglodz/permalink/7140015136113143

What are DDD sagas how Event Sourcing can help us with them

2018-01-24 · Java User Group Łódź
meetup.com/java-user-group-lodz/events/246675268

Edit&Pray, how to deal with legacy code

2016-05-18 · Łódź ICT Cluster presentation
facebook.com/events/799959023473215

Aspect oriented programming with the use of AspectJ

2015-11-14 · Java User Group Łódź
youtube.com/watch?v=I3h-kGeAn2s

Banking of 21st century

2015-11-07 · Careercon.pl