

JORDAN RIVERA

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PROFESSIONAL PROFILE

Platform engineer with **10+ years** building resilient document-generation pipelines, layout engines, and developer-facing template systems. Specialised in high-throughput PDF rendering, semantic authoring DSLs, and turning brittle production-ops scripts into typed, snapshot-tested libraries that scale.

SKILLS

Languages: Java 21, Kotlin, Groovy, Python, SQL

Document & Print: PDFBox, Apache POI (DOCX/XLSX), iText, PostScript, ICC colour profiles, font metrics

Layout engines: Custom DSL design, semantic layout trees, pagination, snapshot testing, visual regression

Build & infrastructure: Maven, Gradle, GitHub Actions, JitPack, Docker, JMH benchmarking

Testing: JUnit 5, AssertJ, PDFBox-based PNG diff, layout-graph snapshots, mutation testing (Pitest)

Distribution: Maven Central, Sonatype OSSRH, GPG signing, JitPack, semantic versioning discipline

EXPERIENCE

Senior Platform Engineer

2024-Present

Northwind Systems

Led the reusable document-generation platform serving billing, hiring, and reporting flows across **8 product teams**. Reduced template maintenance time by **70%** by retiring per-team PDF scripts in favour of one canonical engine.

Software Engineer

2021-2024

BrightLeaf Labs

Built backend services and production document rendering pipelines processing **2M+ documents per month**. Drove the migration from iText to a custom layout engine, eliminating licensing risk and cutting p99 render latency from 1.4s to 380ms.

Backend Engineer

2019-2021

Helix Print Co

Maintained a high-volume invoice-printing service (15M PDFs/year) and authored the compliance test harness that gated every template change.

PROJECTS

GraphCompose (Java 21, PDFBox, Maven, JMH)

Declarative Java PDF layout engine. Semantic DSL, slot-based templates, snapshot testing. Powers production CV / invoice / proposal pipelines for hiring tools and billing systems. (*Open source*)

Template Studio (Kotlin, Compose Desktop, PDFBox PNG diff)

Internal tool for evaluating CV, proposal, and invoice output across 14 design presets. PNG diffing, side-by-side layout, baseline freezing.

LayoutLint (Java 21, JavaParser, Spoon)

Static analyser that flags fragile authoring patterns (deeply nested rows, untyped offsets, implicit page breaks) before they ship to production.

ChromeForge (Java, GraphCompose, Pandoc bridge)

Editorial-magazine document toolkit built on GraphCompose: cinematic covers, pull quotes, multi-column flow, sidebar callouts.

EDUCATION

MSc Computer Science

2019-2021

University of Manchester

Distinction. Thesis: *Composable layout primitives for deterministic document rendering*.

BSc Software Engineering

2015-2019

Imperial College London

First-class honours. Specialisation in compilers and static analysis.

Oracle Java Certification

2023-2024

Professional track

Java 17 platform deep-dive: records, sealed types, pattern matching, virtual threads.

ADDITIONAL

Languages: English (Fluent), German (Intermediate), Spanish (Basic)

Work Eligibility: Eligible to work in the UK and the EU

Open Source: Maintainer of GraphCompose. Regular contributor to PDFBox issue triage.

Speaking: JVM Summit 2024, Devovx UK 2025 — both on declarative document layout.