Robin Frøland

Senior Software Engineer

Oslo, Norway · Remote · Available now
robin@froland.dev · linkedin.com/in/robinfroland

Profile

Senior fullstack engineer with five years of production experience building Kotlin/Java Spring Boot services and React/TypeScript applications in regulated financial services: customer applications, internal caseworker tools, integrations and core-system migration. Technical lead for a team's applications at Gjensidige from 2023 to 2025, with most of the time spent writing production code.

Experience

Cloudberries

Feb 2026 - Apr 2026

Senior Software Consultant

Short consulting employment preparing for Java/Kotlin backend and React/TypeScript full-stack client work, with professional development in AI-assisted and agentic development workflows.

Bare Bitcoin

Oct 2025 - Dec 2025

Senior Software Engineer (Contract)

Fully remote engagement in a small Bitcoin exchange's product team.

- Customers of a Bitcoin exchange needed a safeguard against account drainage: a vault with a customer-set daily withdrawal limit that spreads larger withdrawals over several days. Built its web and mobile interfaces in React/TypeScript and Flutter against the existing Go backend's Protobuf-defined APIs (Connect on web, gRPC on mobile).
- Worked through a backlog of bugs and product improvements. Prioritized non-urgent work independently; the founders directed urgent work.
- Handled UX design alongside frontend implementation while the designer was on parental leave. Moved the design setup from Adobe XD to Figma and created reusable Figma components based on the existing design conventions.

Gjensidige Pensjonsforsikring

Nov 2020 - Oct 2025

Norwegian pension provider serving over 300,000 customers.

- Built and maintained Java/Kotlin Spring services, APIs and integrations, alongside React/TypeScript applications for purchases, customer self-service, advice and fund selection.
- Clarified requirements directly with business specialists, actuaries, an external authorization body and a national registry's task force, and supported the resulting systems in production.
- Moved several of the team's applications from on-premises to AKS: Dockerfiles, Kubernetes manifests in Jsonnet, GitHub Actions workflows and GitOps delivery with ArgoCD, on a platform the platform team owned.

> **Technical Lead** Jun 2023 - Oct 2025
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> - Spent approximately 60% of the role writing production code across customer and caseworker applications, APIs and integrations.
> - Held technical responsibility for the team's applications and integrations, including architecture decisions, code reviews and production support.
> - Ran weekly grooming and prioritization with the product lead and UX, mentored developers in a seven-developer team, and was the technical contact for business stakeholders and other teams.

> **Senior Software Engineer** Nov 2021 - Jun 2023
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> - Main owner of the integration with Norway's shared pension-account registry (PKR) after its 2021 launch; from 2022, took over the first phase of the core-system migration.

> **Software Engineer** Nov 2020 - Nov 2021
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> - Joined the two-developer build of the PKR integration before launch, implementing provider-side workflows in Kotlin and Java.

Experis Academy

Aug 2020 - Nov 2020

Software Engineering Graduate Program

Intensive full-time program focused on Java, Kotlin, Spring Boot, React and TypeScript.

Selected projects

Core-System Migration With Two Systems in Parallel

2022 - 2023

Gjensidige Pensjonsforsikring

Two core systems from different vendors ran in parallel while the legacy core was replaced; more than ten frontend applications needed one stable API. Took over the first phase after the senior developer leading it left and carried it to production. Designed a shared policy model with per-policy routing to the owning core and moved core logic from the backend-for-frontend (BFF) services into the Kotlin/Spring Boot API layer. That boundary shielded the frontends from most core-system differences. After a production incident with duplicate withdrawal orders, made the order flows idempotent: orders persisted as intent with a stable key before any downstream call. A scheduled worker claimed pending work atomically and reconciled ambiguous timeouts before retrying. Updated the React/TypeScript cost, projection and fund-selection views.

Authorization of a Digital Savings and Advice Flow

2024 - 2025

Gjensidige Pensjonsforsikring

A savings and advice flow would go offline unless it passed FinAut, the Norwegian finance industry's authorization scheme, by a fixed deadline. Its suitability rules and forecast calculations had to be validated against actuarial and business reference cases. As technical lead for the delivery, wrote the backlog issues two other developers worked from, reviewed their pull requests, and personally took the forecast calculation and the suitability test. Validated the Kotlin forecast module against an actuary-approved Python prototype and actuary-reviewed snapshots, and the suitability model against hand-calculated examples. Built the conditional React/TypeScript forms and supporting APIs. The flow was authorized before the deadline and still in production when the role ended in October 2025.

Shared Pension-Account Registry Integration

2020 - 2025

Gjensidige Pensjonsforsikring

A national pension reform gave workers one consolidated pension account; the registry behind it exposed a REST API that could only be polled. Multi-step transfers depended on its asynchronous notifications and other providers' actions, and every step had to survive retries and crashes without duplicating money movements. Joined the two-developer build before the 2021 launch and was the integration's main owner from shortly after launch until a documented handover in 2025. Implemented the provider-side transfer, contribution and payment workflows in Kotlin and Java, each step safe to repeat after a crash and reconciled against the registry as the source of truth. Also built caseworker tools with a React frontend.

Pension-Information Integration Migrated to a New Service Version

2020 - 2021

Gjensidige Pensjonsforsikring

A mandatory new version of an external pension-information service (Norsk Pensjon) required customer and agreement data not previously exposed through this integration, plus forecasts Gjensidige now had to compute itself. Carried out the migration alone as one of the first projects at Gjensidige. The data sat in a legacy schema with coded table names. Located it with SQL, settled its meaning with business specialists, and rewrote the data assembly as a Kotlin service inside the existing Java solution. Integrated the actuaries' forecast model and implemented SOAP message security. Ran both versions in parallel as the fallback, starting with internal employees' policies.

Education

Bachelor's Degree, Informatics

Aug 2017 - Jun 2020

University of Oslo

Technical skills

Backend & APIs: Java, Kotlin, Spring Boot, REST, GraphQL, SOAP, WSDL

Frontend & Product: React, TypeScript, JavaScript, Flutter, Redux, React Context and reducers, TanStack Query, Zod, Responsive CSS, Figma, WCAG-oriented accessibility

Data & Integration: SQL, PostgreSQL, Microsoft SQL Server, DB2, JDBI, Flyway, Versioned data models, Batch and state-driven workflows

Cloud, Runtime & Delivery: Azure, AKS and Kubernetes (application-level), Docker, Podman, ArgoCD and GitOps, GitHub Actions, Feature toggles (Unleash)

Security & Identity: OAuth2, OpenID Connect, JWT, Microsoft Entra Workload Identity, Azure Key Vault, WS-Security, Certificates and Java keystores

Quality & Operations: JUnit, MockK, Jest, Splunk, Grafana, Loki, React Profiler

Languages

Norwegian - Native
English - Fluent