Nuno Castilho

Profile

Senior Software Developer with over 17 years' experience, specialising in Java, Kotlin, React, Spring Boot, AWS, and cloud-native microservices. Strong advocate of modern engineering practices including Infrastructure as Code, continuous delivery, and AI-assisted development using tools such as GitHub Copilot and Claude Code to accelerate delivery, improve code quality, and support architectural decision-making. Proven experience delivering enterprise-scale systems across highly regulated and high-traffic environments.

Key Skills

- **Languages:** Java, Kotlin, JavaScript, TypeScript
- **AI Tooling:** GitHub Copilot, Claude Code, Gemini
- **Frameworks:** React, Spring Boot, Spock, Gradle, Maven
- **Cloud Infrastructure:** AWS, Azure, Kubernetes, Docker, Terraform, CloudFormation
- **Databases:** PostgreSQL, MySQL, Redis, MongoDB, Couchbase, Oracle
- **Messaging:** Kafka, Kinesis, RabbitMQ, Apache Camel, Spring Integration
- **CI/CD:** GitHub Actions, Gitlab CI, Jenkins, Team City, Nexus, SonarQube
- **Methodologies:** Agile, Microservices, Event Sourcing, SOLID, TDD, BDD

Education / Training

- **(2018)** AWS Certified Developer - Associate (DVA)
- (**2013**) IBM Websphere Commerce V7 Programming Essentials (6T224)
- (**2013**) IBM Websphere Commerce V7 Foundation (ZC700)
- (**2007**) SUN Certified Programmer for Java 2 Platform 1.4
- (**2006**) First Class Degree in BSc (Hons) Computer Science at Kingston University

Recent Work History

Company	Role	From	To
Ticketmaster	Senior Software Engineer - **Java/Kotlin/React**	Oct 2023	-
The Workshop	Senior Software Engineer - **Java/React**	Jun 2023	Sep 2023
Policy Expert (QMetric)	Senior Software Engineer - **Java/Kotlin/Groovy**	May 2021	Mar 2023
Rightmove	Senior Software Engineer - **Java/Groovy/React**	Nov 2018	Mar 2021
Ladbrokes Coral	Senior Software Engineer - **Java/React**	Jul 2018	Oct 2018
Optum UK	Senior Software Engineer - **Java**	Mar 2018	Jul 2018
Accenture	Senior Developer - **Java**	Apr 2017	Oct 2017
Carphone Warehouse	Senior Software Developer - **Java/Angular**	Jan 2015	Jan 2016
Accenture	Senior Software Developer - **Java/Groovy**	May 2014	Jan 2015
Smart421 (Kuoni)	Senior Developer - **Java/jQuery**	Feb 2014	Apr 2014
Marks & Spencer	Software Engineer - **Java/jQuery**	May 2013	Feb 2014
Accenture (DWP)	Software Engineer - **Java**	Jan 2007	May 2013

Employment Details

Senior Software Engineer

Ticketmaster
Oct 2023 –

Senior full-stack developer on the TM Payments team working within a cloud-native microservice architecture using Java 17/21, Kotlin, Spring Boot 3, Reactive WebFlux, Spring Cloud Gateway, and React. MySQL database managed via Flyway. Applications deployed to AWS EKS across multiple AZs.

Development of a Payments Eligibility Runtime Service (Java + Spring MVC) for the Mexico market, enabling dynamic control of payment instalments availability and restrictions as part of the main Payment flow.

Developed Saved Cards backend services (Kotlin, Spring WebFlux) powering My Wallet features in the customer My Account area. Implemented card restriction rules enforced during Create Session and Add / Remove Card flows, supporting multi-market rollout across MX, EU, and OC.

Maintenance of an Admin Panel (React App) used for operational configuration and support as well as maintaining GitLab CI pipelines and shell scripts to support local development of platform services.

Leveraged Claude Code and Copilot for accelerated development, test scaffolding, and refactoring of Java, Kotlin, and React codebases, improving delivery speed while maintaining code quality.

Development followed daily stand-ups with weekly showcases.

Senior Software Engineer

The Workshop
Jun 2023 – Sep 2023

Senior developer on the Engineering Security team, developing a system aimed at providing visibility on security across the company, verticals and several products such casino platforms and crypto systems. Microservice architecture written in Java 17, Spring Boot 2, PostgreSQL and deployed to Kubernetes. Development of SonarQube plugin for supporting integration with Jira written in Java / React.

Senior Software Engineer

Policy Expert
May 2021 – Mar 2023

Senior developer on an Event Sourcing platform for managing customer buy flow (direct or via aggregators), including maintenance on legacy systems for insurance claims, sales rules and others. Systems written in a variety of tech such as Java 11, Spring Boot 2, AWS S3, SQS, Dynamo DB, RDS, and deployed to Fargate. Migration of several pipelines to GitHub Actions and championed the adoption of OpenTelemetry by setting up AWS X-Ray for better traceability.

Senior Software Engineer

Rightmove Group Ltd
Nov 2018 - Mar 2021

Senior developer on a batch campaign system designed to send 1.7 million emails to active users of the website for lead generation. Written in Java 11, Spring Boot 2, Kafka and Oracle. TDD development and pair programming with junior members of the team. Full Stack developer of location-based products on existing microservices for enhancing the property search page. Written in React 16, Java 8, Spring Boot 2 and Elastic Search. Frontend developer for a video upload feature on the estate agent's admin platform. Implemented with React 16, Redux and Vimeo.

Senior Software Engineer *Ladbrokes Coral Group* *Jul 2018 - Oct 2018*	Full Stack senior developer for a cross-brand application using real time sports feeds powered by Kafka streams from OpenBet. The system compromised of sending automated campaigns through Salesforce Marketing Cloud. Backend implementation using Java 8, Spring Boot 2 and PostgreSQL microservices. Adhered to TDD development and pair programming practices. Frontend developed with React 15, ES6 JavaScript, NodeJs 8. One-click code deploys with Jenkins 2 CI/CD pipelines, with Terraform-managed AWS infrastructure enabling reproducible, versioned, and auditable environment provisioning.
Senior Software Engineer *Optum UK* *Mar 2018 - Jul 2018*	Senior developer for a custom-built HR system for a Health Care / Clinical platform using an open-source ERP (iDempiere) application, OSGI (Equinox), Java 8, PostgreSQL DB and Jetty 9. Responsible for the integration of SAML2 SSO into the existing platform while liaising with Architecture and Infrastructure teams. Created deployment scripts using Shell Script for automating manual deployment processes within the project.
Senior Software Developer *Accenture* *Apr 2017 - Oct 2017*	Lead developer for a REST API backend for a self-service portal designed in React and Node.js with the intent to reduce provisioning times of a DevOps infrastructure and aid inter-team coordination. The backend developed in Java 8 with Spring Boot, Spring Cloud, Spring Security, JWT, OAuth2, MongoDB, Eureka, RabbitMQ and an integration layer built in Apache Camel. Automated deployments CI/CD using Jenkins, Docker and OpenShift with automatic scaling of microservices.
Senior Software Developer *Carphone Warehouse* *Jan 2015 - Jan 2016*	Designer and lead developer for a new backward compatible, server-side REST/HATEOAS compliant Model Driven Development API engine (AppEngine) built using Java 8, Spring MVC/Boot, Spring Security, Elastic Search, Spring Data, Mule and MongoDB. BDD development with Cucumber. Full Stack developer on message replay system written in Angular, Spring Boot and Mongo DB. Responsible for task estimation and backlog maintenance; liaising with DevOps for ensuring documentation, packaging and delivery of components are fully compliant with team's standards.
Senior Software Developer *Accenture* *May 2014 - Jan 2015*	Enhanced a data gathering library within a Model Driven Development Platform to offer a HATEOAS-compliant REST API using Spring, including Webflow and Spring Boot, integrated with MongoDB; also upgraded a legacy Eclipse Modelling Tool to Eclipse 4 and automated its Jenkins distribution pipeline, while enhancing legacy code quality through increased testing and refactoring.
Senior Developer *Smart421* *Feb 2014 - April 2014*	Created a multi-tenant travel itinerary application for agents with Spring, MySQL, Salesforce and IBM AS/400 integration. Updated integration to Apache Camel and improved DTO mapping to XPath/Velocity-based. Managed UI development with Bootstrap/jQuery for responsive multi-channel device use.
Software Engineer *Marks & Spencer*	Supported and developed Apigee APIs for new channels like iPad and kiosks, refined Spring/Hibernate tooling for deployment tracking, developed a full-stack API monitoring system with jQuery/Spring Boot/MongoDB, and

May 2013 - Feb 2014	mentored junior team members as a Spring/Maven SME.

Software Engineer *Accenture* *Jan 2007 - May 2013*	Senior programmer in the architecture team, responsible for development and supervision of the client's portal platforms on JBoss and WebCenter using JSR286 remote portlets. Server-side senior developer on Java EE platform, Spring and JPA / Hibernate for the client's web application and providing team training and quality assurance of the codebase by reviewing and refactoring old legacy code. Design and implementation of internal systems and automation of Java build and deploy jobs within the delivery pipeline.