

Chris Bath

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As an accomplished software engineer, I bring engineering experience and leadership skills to drive success in software development. I specialise in backend and infrastructure with a comprehensive understanding of the entire stack. I continuously enhance my expertise through proactive engagement in personal projects, ongoing research into industry trends, and a commitment to advancing my career.

Technical Skills

- Java 8-23, Kotlin
- Spring Boot (Cloud, Data, Security)
- Kafka (Connect, Streams)
- Amazon Aurora, Mongo, SQL Server
- AWS, Docker, Helm, k8, Terraform
- Azure DevOps, Circle CI, Jenkins
- Git, Gradle, Shell Scripting
- JUnit, Selenium, Test Containers

Experience

Principal Engineer – 10x Banking | Scale-up

Previous: Lead Developer, Engineering Manager

JULY 2022 – CURRENT | REMOTE | LONDON

Working in the experience domain, focusing on long-term strategy, hands-on development, and supporting the platform while nurturing teams for success.

- Delivered SOC2-compliant polyglot runtime environment, increasing the total addressable market by 30% and enabling revenue-generating proof of concepts/value.
 - Built developer CLI tooling using **Golang**.
 - Developed management control plane using **Node**, **AWS Lambda** and **AWS DynamoDB**.
 - Created a secure runtime environment using **AWS ECS**, **Docker**, **Nginx**, and **Terraform**.
- Built proof of concepts to answer hypotheses before committing to work, reducing decision-making to days and weeks.
 - Validated the feasibility of **GraalVM** to optimise resource usage and operational costs.
 - Implemented technical IP protection mechanisms for **Spring Boot** microservices, ensuring secure self-hosted deployments and safeguarding proprietary code.
- Led customer interaction, extensibility, and migration domains. Ensured successful delivery, improved system scalability and a reliability of at least 99.99%.
 - Designed and architected new and existing product lines using C4 modelling, ADRs, and FMEA to streamline design processes and reduce risk while reducing decision-making time.
 - Simplified components and improved maintainability resulted in \$150k in annual savings.
- Line managed two squads of ten engineers, mentoring three members to promotions.
 - Promoted a culture of build it, run it, resulting in a 50% reduction of incidents while achieving 100% SLA for support.
- Planned and executed the transition from an outsourced agency team of thirteen to an on/nearshore team of six, reducing communication delays from days to minutes and achieving an 80% productive gain.
- Reduced organisational toil by building out automated tooling for everyday repetitive tasks.
 - Programmed **Bash** scripts to bulk changes 100+ microservices, saving 100s hours of effort.
 - Created **Postman** collections for frequent business journeys.

- Migrated to **New Relic** observability stack from **Prometheus** and **Grafana**, transforming monitoring capabilities and improving MTTR by 50%.
 - Upskilled squads in NRQL, enabling the creation of advanced alerting and dashboards, reducing troubleshooting time and enhancing operational visibility.
 - Integrated cloud exporting metric and log with **AWS FireLens**, improving the accuracy and reliability of observability data.
 - Automated the rollout of golden signals across 40+ microservices, standardising monitoring practices and reducing configuration time by 60%.
- Presented organisation-wide to an audience of 200+.
 - Technical dive into the lesson learnt upgrading **Spring Boot** from version 2 to 3, highlighting strategies to reduce risks and ensure seamless migrations.
 - Reflection on the motivations, build, and how to integrate into the extensibility platform.

Senior Software Engineer – MyTutor | Scale-up

MARCH 2021 – JULY 2022 | REMOTE | LONDON

Acted as principal engineer and built a micro-service platform for the UK's leading online tutoring platform.

- Built the entire foundation of a new platform in **AWS** as part of a tiger squad of four.
 - **Java 17** templated **Spring Boot** services backed by **Kafka (AWS MSK)** as the event backbone.
 - **Node** micro-frontends built with **Next.js** and **React**.
 - **Circle CI** for CI/CD with **Terraform** to deploy infrastructure.
 - Core infrastructure built on **AWS (API Gateway, App Mesh, Aurora, Cloud Map, ECS, etc.)**.
 - An anti-corruption layer was built with **AWS DMS, CDC, and Kafka (Streams)**. See [write-up](#).
- Redesigned and optimised core components (classroom, matchmaking and onboarding) to resolve stability and performance issues, achieving 99.999% availability and p99 latency of 100-300ms.
- Mentored best practices on system design, architecture patterns, domain-driven design and event-driven architecture as squads scaled up from one to seven.
- Migrated from monolith in-house CRM to HubSpot, reducing maintenance overhead, freeing up engineering resources for strategic initiatives and cutting lead interaction time by 50%.
- Built data pipeline, with data lake backed by **AWS S3** with **AWS Athena** for queries and Snowflake for the data warehouse. Enabled the business to become data-driven while maintaining active service performance without degradation.

Senior Backend Engineer – Asto | Start-up

NOVEMBER 2019 – MARCH 2021 | LONDON

Tech lead of financial products (invoice financing, capital finance) of Santander-backed fintech start-up.

- Built 15+ **Spring Boot** microservices, leveraging **Kafka** and **AWS SQS** for asynchronous communication and implemented real-time functionality using **Spring (MVC, Web Flux)**.
 - Enabled the processing of £1-5 million in finance drawdowns and repayments.
- Implemented daily production deployments of high-quality software using **Circle CI, K8,** and **Terraform**, ensuring reliability through automated testing and monitoring.
- Led end-to-end product delivery, including core customer journeys, credit allocation, portfolio risk management, drawdown, and automated repayment settlement.
 - Spearheaded integrations with key partners using **OpenAPI**, bringing new product lines to life.
- Proactively focused on continuous quality improvement, unit tests, integration tests, BDD (**Cucumber**), PACT, performance (**Gatling**), and smoke tests. Ensured robust app and web testing using and app/web testing using **Selenium** and **Appium**, reducing defects by 20%.

Java Developer – Vodafone | Enterprise

MAY 2018 – NOVEMBER 2019 | NEWBURY

Worked in a SAFe® agile digital engineering team to develop a new platform for millions of users across Web, Mobile, and IoT.

- Led the delivery of critical features
 - Customer order status for iPhone launch using **AWS (Lambda, DynamoDB)**.
 - Customer upgrade journey for web and mobile using **Kotlin, React Native** and **Redis**.
 - Pricing & promotions engine supporting millions of transactions a day using **Elasticsearch**.
 - Mobile number porting using **Java** and **Spring Cloud**.

Software Analyst Developer – Gamma | Scale-up

JUNE 2013 – MAY 2018 | NEWBURY

Worked as a full-stack developer using an agile approach, building products (APIs, frontends, backends, middle-ware) for different business segments (B2B, B2C and back office).

Used: **HTML5, Java, Jenkins, Mule ESB, Spring Framework, SQL Server** and **Wildfly**.

Industry Experience – Toshiba | Enterprise

MAY 2013 – JUNE 2013 | PLYMOUTH

Prototyped an **Android** mobile app for remote controlling air conditioner units using **Embedded Java**.

Software Engineer - 2Speced | Startup

OCTOBER 2008 – JULY 2010 | REMOTE

Led the development of server and client components for a web-based multiplayer game using **Java (Applets, IO, Swing)** and **XML**.

Academic

1st class BSc (Hons) Computing

2010 – 2013 | UNIVERSITY OF PLYMOUTH | PETROC COLLEGE

Studied a mixture of modules focusing on practical programming aspects and project management.

Dissertation

Developed a cloud-based **Android** application that allowed anglers to browse venues, track trips, and run fishing competitions using **Java 6** and **Orient Object DB**.

Interests

- Exploring various parts of the world.
- Building a small personal collection of board games.
- Course and carp fishing, occasionally participating in fishing matches.
- Investing time experimenting with **AI, Apache Flink, Kotlin**, and **Netlify**.