



ANSHUL BAJPAI

SENIOR CONSULTANT/ENGINEER

ABOUT

I am a **delivery focused polyglot consultant/engineer** with 15 years of experience in agile software delivery. I have years of experience in building **high-throughput, performant, scalable systems** in a wide number of domains e.g. government, e-commerce, financial, fraud, banking, telecom etc.

I am an **extreme programming practitioner** and I write tested, scalable, clean and maintainable software. I believe in building a simple architecture/solution using open-source technologies instead of building complicated enterprisy solutions.

I am also an inherent functional programming developer for past 7 years using **Scala** and other **typelevel** libraries

I have worked with several technologies in past ranging from JVM based languages like **Scala, Java** and Groovy to .net technologies like **C#**. I have also developed RIA using javascript libraries/frameworks like backbone and angular.js, ionic, react backed by RESTful services built in **nodejs**.

WORK EXPERIENCE

HMRC

London, UK

 <https://www.gov.uk/government/organisations/hm-revenue-customs>

September 2020 – Present

Senior Engineer

Senior engineer on Platform team which helps delivery teams to achieve their business goals

Highlights

Develop AWS facades that keeps delivery teams cloud provider agnostic

Develop internal Authn/Authz services

Develop opinionated bootstrap microservices libraries

Develop devx tools to help service teams explore other services and dependencies on the Platform

Using Scala, Playframework, MongoDB, AWS, Terraform

Depop

<http://depop.com/>

June 2020 – August 2020

London, UK

Senior Engineer

Rewriting the authentication platform for website and devices.

Highlights

Was part of team which was re-writing the python based authentication platform using Scala

Also working closely with the lead architect on multi-factor-authentication journeys

Using Scala, Playframework, Postgres, DynamoDB, Terraform, Kubernetes

Guardian

<https://www.theguardian.com/uk>

December 2019 – March 2020

London, UK

Senior Engineer

Rewriting the data ingestion component of the core content-api

Highlights

Helped rewriting the core ingestion component from using legacy vanilla actors to now use more robust, back-pressured akka-streams

Using AWS Kinesis and SQS to source content and persist in elasticsearch and exposing them using RESTful services and AWS Lambda

EqualExperts UK

<https://www.equalexperts.com>

November 2014 – December 2019

London, UK

Senior Software Engineer

Worked as a senior consultant for various clients - Streaming Media Company, [Intellectual property office](#), [Klarna](#), [Xinja](#), [HMRC](#), [VISA](#)

Highlights

We built an authentication and identity provider platform for a media streaming company to migrate from a legacy platform. We are heavily using pure functional programming using **Scala, libraries like cats, cats-effect, AWS DynamoDB, Kinesis, AWS Lambda**.

At **IPO**, we helped them re-engineer their intellectual property renewals form using UX Forms service. This was build using **Scala/Java and HTML templating done in mustache**

At **Klarna**, we worked helping them deliver low latency fraud variables sourced from historical events for fraud decision engine. We were using **Scala, Kafka, Kafka Streams, Akka streams, Redis, etc. with everything**

running on AWS

We built micro-services integrating with the payment platform provider and used by the mobile app for **Xinja** which is a new neo-bank in Australia. A typical micro-services architecture built using **Scala play-framework and DynamoDB**

At **HMRC**, I worked with teams delivering multi-factor authentication (OTP, TOTP) and identity-verification. A typical micro-services built using **Scala play-framework and MongoDB**

EqualExperts India

Pune, India

<https://www.equalexperts.com>

January 2011 – October 2014

Software Engineer

Worked as a consultant for various clients - [O2](#), [Caplin](#)

Highlights

At **O2** we worked with teams delivering their retail business features like Product Catalogue, Checkout, Payments, Backend agents. We also helped them re-engineer their authentication platform using OAuth2. We used various mix of JVM languages - **Scala, Groovy, Java** on different teams

Thoughtworks India

Pune/Bangalore, India

<https://www.thoughtworks.com>

October 2007 – December 2010

Application Developer

Worked as an application developer for [The trainline](#), [Stanford University](#)

Persistent Systems

Pune, India

<https://www.persistent.com/>

July 2006 – September 2007

Member of technical staff

Worked as a Junior developer on internal projects

📧 CONTACT



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<https://anshulbajpai.github.io/resume>



LinkedIn
<https://www.linkedin.com/in/anshulbajpai>

Github
<https://github.com/anshulbajpai>

EDUCATION

2014

Coursera
<https://www.coursera.org/learn/scala-akka-reactive>
Reactive programming
Courses
Principles of Reactive Programming

2012

Coursera
<https://www.coursera.org/specializations/scala>
Functional programming
Courses
Functional Programming Principles in Scala

2002 2006

Visvesvaraya National Institute of Technology, Nagpur
<https://vnit.ac.in/>
Bachelor
Electronics and Communication

SKILLS

Programming methodologies and practices

Master

functional programming

extreme programming

pair programming

TDD

BDD

CI/CD

Software architecture

Master

Microservices

RESTful APIs

Event sourcing

CQRS

Serverless

OAuth2/OpenID/JWT

Java

Master

spring

spring-boot

junit

mockito

hibernate

Scala

Master

tagless-final

cats

cats-effect

fs2

shapeless

recursion-schemes

Web frameworks

Master

play-framework

akka-http

Event driven architecture Master

Kafka AWS Kineses Akka Streams fs2 AWS Lambda AWS SQS

Database Master

DynamoDb MongoDB Postgres Redis Elasticsearch

AWS Master

Lambda StepFunctions StateMachine ECS DynamoDB Kinesis Cloudwatch Cloudformation

Containers Master

docker docker-compose

nodejs Intermediate

express

Cloud configuration/provisioning Intermediate

Terraform Ansible

