

# Paul Brabban

*Tempered Works Ltd.*

## Objective

Having worked with analytics, marketing, data engineering and machine learning, as well as my core of software development, I'm flexible enough to help you. I'm looking for fast-moving, challenging contract engagements that will deliver real value for you.

## Experience

Nov 2018 – **Tech Lead (Contract)**, *Equal Experts/Civil Service Client*, Manchester.

Now Entity resolution and matching.

- Delivered a demonstration system to secure next delivery phases.
- Included REST/SOAP APIs, web UI, graph storage, data ingestion and batch processing.
- Achieved performance goals with high sustained request volumes on modest hardware.
- Adopted contract-first development and pact testing.
- Key Tech: Java 8 and 11, Spring Boot, AWS, Neo4J, Redis, Kubernetes, Swagger.

Jun 2018 – **Data Engineer (Contract)**, *People Source/Dunhumby*, Manchester.

Nov 2018 Research into streaming products and serverless services.

- Led a small team on a serverless proof of concept of an existing data ingest service.
- Built a proof of concept for dashboard based on real time transaction data.
- Mentored an intern to produce simple machine learning models.
- Wrote custom tooling to replay historical data for demos – see blog post
- Key Tech: Scala, NodeJS, GCP, Apache Beam.

Sep 2017 – **Backend Developer**, *LookerHQ*, Manchester.

May 2018 Took over development and operation of our app backend services, implemented novel features whilst bringing data-driven and analytical elements to product development.

- Implementing fixes and features on our API backend services using NodeJS, Heroku, PostgreSQL and RabbitMQ.
- Brainstorming with the team to create novel features, such as a characteristics-based recommender and a machine vision-based clothing tag scanner.
- Working quickly, delivering fixes in minutes and features in hours to days, to help explore the product-market fit as quickly as possible.
- Promoting and implementing data-driven product development, providing insight into problems and opportunities in acquisition and retention.
- Integrate services like Elasticsearch, Firebase, Branch.io and getstream.io behind our APIs.
- Improving security and regulatory compliance in our product and practices, including preparation for GDPR.
- Advice, coaching, brainstorming and other tasks as an experienced member of a four-person company.

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- Mar 2016 – **Principal Developer**, *Sky Betting and Gaming*, Sheffield.
- Aug 2017 Joined, and subsequently led, a team implementing a novel event sourced data warehousing and integration system in Clojure, primarily using AWS Lambda.
- Delivered solutions primarily for data science, analytics and marketing staff based in Rome, Italy.
  - Improved team practises by working with an agile coach, increasing reliability, then team performance.
  - Advised and coached within the team and beyond on good AWS practices.
  - Qualified as an AWS Associate Solutions Architect and encouraging others to do the same.
  - Presented on AWS-related topics at a local devops meetup
  - Wrote Crucible on my own time, an open source library, to help the Clojure-skilled team adopt AWS CloudFormation infrastructure-as-code
  - This integration system used a variety of technologies, including AWS Kinesis, DynamoDB, RDS, CloudFormation, Segment.io, Adform and Intercom
- Sep 2014 – **Senior Software Developer**, *Wakelet Ltd.*, Manchester.
- Feb 2016 Implementing server-side technology to support the Wakelet product with Java and NodeJS on the AWS cloud platform.
- Quickly designing and creating backend services providing HTTP-based APIs to mobile apps, browser extensions and a website.
  - Learnt NodeJS to increase collaboration with frontend developers and enable full-stack development.
  - Proposing and executing transitions from traditional server hosting to use cloud solutions via AWS.
  - Proposing and implementing transitions from monolithic to a more microservices-based architecture where justified.
  - Implemented CloudFormation and CLI automation to deploy and run our applications and infrastructure.
  - Worked with executives to improve communication and practices, find potential sales opportunities and control risks.
- Jan – Sep 2014 **Software Development Specialist**, *HSBC*, London.
- Leading a development team that supports global trading data reconciliation, reporting and internal monitoring for one of the largest financial institutions in the world.
- Initiating and leading a transition to agile practices with rapid and significant improvement in feedback on external perception.
  - Identified technical problems and implemented solutions, such as improved software expressivity and diagnostics for both developers and end users, design changes improving testability, and elimination of performance and reliability problems.
  - Introduced test-driven techniques to help measure progress, disambiguate details in business descriptions and identify regressions in the future.
- 2001–2013 **Historical employment available on request.**

## Competencies

- Agile Scrum and Kanban practices (team member and lead). JIRA, Trello.
- Devops CloudFormation/Terraform, Docker, Kubernetes.
- Languages Java, Scala, NodeJS/TypeScript, Clojure. Able to learn new languages quickly.

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RDBMS PostgreSQL, MySQL, MS SQL Server  
NoSQL DynamoDB, Elasticsearch, Neo4J, Redis  
Development Git, TravisCI, HerokuCI, CircleCI, Codeship, Jenkins, Artifactory  
AWS Lambda, Kinesis, DynamoDB, RDS, CloudFront, S3, VPC, IAM and others  
Google Cloud Firebase, Cloud Storage, Cloud Vision, Beam/DataFlow, App Engine  
Integrations Segment, Branch, Getstream, Intercom, Salesforce, Adform, MailChimp, Mixpanel, Slack and others

## Education

2016 **AWS Associate Solutions Architect**, *Certification*.  
2009–2013 **MSc. Advanced Computer Science**, *University of Manchester*.  
1996–2000 **BSc. Theoretical Physics**, *University of Sheffield*.

## Natural Languages

English Native Speaker

## References

Available on request