Paul Brabban

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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 contract, consulting or freelance engagements that will challenge me and deliver real value. My ideal client is a small company where I can help across several areas, but I'm also happy to work with a narrow focus in a large company.

▬▬▬ Experience

Nov 2018 – Now
Tech Lead (Contract), *Equal Experts/Civil Service Client*, Manchester.
Entity resolution and matching.

- Delivered a "Proof of Competence" demonstration system that exceeded expectations.
- Achieved performance goals of high precision/recall with high sustained request volumes.

Jun 2018 – Nov 2018
Data Engineer (Contract), *People Source/Dunnhumby*, Manchester.
Research into streaming products and serverless services.

- Led a successful serverless proof of concept of an existing data ingestion service.
- Built a proof of concept for dashboard based on real time transaction data.
- Mentored an intern to produce simple machine learning models for streaming comparison with expected sales.
- Wrote custom tooling to replay historical data for demos.

Sep 2017 – May 2018
Backend Developer, *LookerHQ*, Manchester.
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.

Mar 2016 – Aug 2017	**Principal Developer**, *Sky Betting and Gaming*, Sheffield. 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 – Feb 2016	**Senior Software Developer**, *Wakelet Ltd.*, Manchester. 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.

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