# Personal Details

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| Name: | DAVID DUMENIL | | |
| Address: | 9 HIGHFIELD ROAD, BRAMHALL, SK7 3BE, UK | | |
| Date Of Birth: | 17 NOVEMBER 1977 | Marital Status: | MARRIED |
| Telephone: | +44 (0) 7568 482 953 | E-mail: | [jobs@david-d.com](mailto:jobs@david-d.com) |
| Nationality: | BRITISH | Languages: | ENGLISH |
| Driving License: | FULL UK LICENSE | Availability: | 1 WEEKS NOTICE |
| Job Types Considered: | **CONTRACT ONLY** | Referees: | AVAILABLE ON REQUEST |

# Skills Overview (key skills in bold)

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| Technologies | Angular, CSS, Design Patterns, **Hibernate, HTML**, **JDBC, JMS, JPA, JSON, JUnit**, Log4J, MATLAB, Maven, Octave, Puppet, PL/SQL, **REST**, **S3**, Shell Scripts, **Sonic ESB** & MQ, **SOA**, **Spring**: **AOP, JMS**, UML, **Web Services**, **XML, YAML** |
| Languages | **Bash,** Groovy, **Java**, **Javascript**, Ruby, **Python,** Scala**, SQL** |
| Edit | Eclipse, **IntelliJ**, PyCharm, Spring STS, **Vim, Visual Studio Code** |
| Version | **BitBucket, git, GitLab, GitFlow/HubFlow, GitHub**, PVCS, **SVN/Subversion**. |
| Build | **Ansible**, **Artifactory**, CloudFormation, CircleCI, **Docker**, **docker-compose**, Goss, **Jenkins**,Molecule**, Nexus**, Packer, **Terraform, Terragrunt**, **Vault** |
| Run | Django, Dropwizard, **EKS**, **Kubernetes**, Jetty, Mesos DC/OS, Grails, **J2EE, JEE, Node.js, NGINX**, Redis, RabbitMQ, Spring Boot, **Tomcat**, Websphere |
| Test | JMeter, Gatling, SoapUI, SonarQube, Test Director, Wireshark, YourKit Profiler |
| Monitor | **Cloudwatch**, Grafana, Elasticsearch, Logstash, Kibana, **Prometheus**, Sensu |
| Persist | DB2, Cloudera Director, Hadoop, MongoDB, MySQL, Oracle, Postgres |
| AWS | ACM, AMI, CloudWatch**,** EBS, **EC2,** ECR, **ECS, EKS**, Elasticache, IAM, KMS, **Route 53, RDS**, S3, SQS, STS, **VPC**. |
| Other Software | **Confluence**, Consul, Celery, Crucible, Enterprise Architect, **Jira**, Kafka, Mingle, SQL Developer, Trac, XMLSpy |
| Environments | **AWS,** Heroku**, Linux (Debian**, Centos and **Ubuntu**), **OS X**, **Windows** |
| Industries | Aerospace, Banking, Telecoms, Media, Public Sector, Retail, Startups, Travel |

Experience

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| **Senior DevOps Engineer** at **Department for Work and Pensions (DWP)**, Sheffield (Nov 2018 to present) | |
| Joined and later led a team building out a new containerised microservices infrastructure platform on AWS using a mixture of Terraform, Ansible and Packer. | |
| Main technologies used:  Ansible, AWS, Docker, ECS, EKS, GitLab, Grafana, Helm, Kubernetes, LetsEncrypt, node.js, Packer, Prometheus, RDS, ServerSpec, SonarQube, Terraform | Started from a bare account and progressed via Infrastructure as Code libraries in Terraform, Ansible, ServerSpec to a pipeline delivering containerised microservices and supporting monitoring/logging/auth services as part of a versioned, immutable infrastructure.  Work included: self-serve disposable environments using a mixture of Kubernetes (EKS), GitLab, Docker and Helm; defining node.js microservice standards for health and metrics endpoints that fed into Prometheus/Grafana dashboards; an automated pipeline that surfaced compliance and quality issues as part of code review before merge and release. |

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| **Senior Consultant** at **Contino**, Manchester, England (July 2018 to November 2018) | |
| Two banking projects for a DevOps/Cloud focused consultancy. One focused on cloud migration of on-premise apps. Another focused on introducing a CI pipeline and developer tooling for Spark jobs in a Hadoop cluster. | |
| Main technologies used:  Ansible, AWS, DB2, Docker, docker-compose, EC2, ECS, Hadoop, Hortonworks, Jenkins, Kafka, Nomad, S3, Spark, SonarQube, Traefik | **Barclays**: Assessing and re-architecting on premise apps for migration to the corporate AWS environment. Requirements gathering, architectural review, solution design and presenting the resulting designs and costings to stakeholders.  **Lloyds**: Building out a local dev env and CI pipeline for Spark jobs on Hortonworks. Jenkins pipeline included per-commit benchmarking, quality gates in SonarQube and containerised Hadoop cluster. Automated testing was Cucumber-based BDD spinning up external dependencies like Kafka and DB2. |

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| **DevOps Lead** at **Equal Experts**, Manchester, England (November 2016 to July 2018) | |
| Building a Docker-based Microservices platform for Critical National Infrastructure within HMRC. Brought existing datacenter estate under Infrastructure As Code using a mixture of Docker, Ansible and Jenkins before adding Terraform to build out a Continuous Delivery pipeline and platform infrastructure running on AWS. | |
| Main technologies used:  Ansible, Artifactory, AWS, Bash, Cloudera Director, Docker, docker-compose, EC2, ELK, IAM, Jenkins, Kubernetes, Python, S3, Sensu, Terraform, Vault | Standardised platform around docker and docker registry. Brought existing on-premise estate under Ansible. Built out a Jenkinsfile-based Continuous Delivery pipeline that staged and tested all Ansible changes. Introduced Jenkinsfiles and Docker Agent-based builds across most teams.  Baked build notifications and Pull Request workflow into Mattermost team chat. Introduced ELK as the standard log target. Brought Sensu under IaC. Brought existing secrets under a Consul-backed Hashicorp Vault.  Migrated on-prem environments and infrastructure to AWS. Introduced Terraform CD pipeline using Jenkinsfiles. Stood up Kubernetes lab cluster and led the team through an evaluation process.  Paired with a data pipeline team to design and build Cloudera (Hadoop) cluster bootstrapping process. Introduced clustered RabbitMQ and MySQL. |

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| **DevOps Consultant** at **Cake Solutions**, Stockport, England (May 2016 to November 2016) | |
| A greenfield project building a Docker-based Microservices platform for a major ecommerce customer. Standing up a Continuous Delivery pipeline and platform infrastructure on a Mesosphere DCOS base running on AWS. | |
| Main technologies used:  Artifactory, AWS, Bash, CloudFormation, EC2, ECS, IAM, Jenkins, Kibana, Marathon, Mesosphere DC/OS, Packer, Python, RDS, Route 53, Ruby, S3, SBT, Sensu, SES, Slack, Troposphere | Working as part of a DevOps team building a new ecommerce platform. A set of node.js and Scala-based Microservices built and run as Docker containers inside Mesosphere DC/OS as Marathon services. Persistence provided by Kafka, Cassandra, ElasticSearch and Postgres RDS. Supporting infrastructure was Consul for service discovery, Sensu for monitoring, the ELK stack for logging, and Graphite/Grafana for metrics and dashboards.  Built a set of Jenkins 2 pipelines including a common build/test/scan/tag/promote pipeline for Docker containers, a Packer pipeline to bake AMIs and one for a node.js/Polymer web app. Wrapping the gulp build with Selenium Grid/SauceLabs based browser testing and containerization using NGINX.  Built out the ChatOps platform integrating Sensu alerting with PagerDuty, Amazon SES and Slack webhook providing incident alerting and resolution within Slack channels. |

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| **Architect** at **MoneySupermarket**, Chester, England (March 2015 to May 2016) | |
| Building an AWS-based microservices platform running in AWS, serving mobile, web and back office clients with a mix of design, build and DevOps work. | |
| Main technologies used:  AWS, Camel, Confluence, Docker, Dropwizard, EBS, ELK, GitHub, Handlebars, Java 8, JSON, Kafka, Loggly, Puppet, Mingle, MongoDB, ELK, REST, S3, Sonar, Swagger | Day to day work involved designing and updating REST/JSON microservices running on Dropwizard and the Play Framework. Services covered events, authentication, product and back office functions. Persistence through MongoDB, Amazon S3 and ElasticSearch. Messaging in Rabbit MQ and Apache Kafka. Caching in Redis.  Lead a team that introduced HAProxy and NGINX/OpenResty/LUA replacement for datacenter-based Netscaler and a universal gateway and for HTTP traffic and a platform for SEO, perf metrics, caching and multi-region resiliency. Built and deployed as a Docker container, provisioned using Puppet, included an acceptance and performance CI pipeline in Jenkins.  Designed and introduced a standardised microservice performance test approach baked into the Jenkins CI pipeline using Docker, Gatling and the JobDSL plugin.  Lead the team designing and rolling out a security hardening across the platform, encrypting data in-flight and at-rest, introducing infrastructure-wide IPSec to encrypt intra-cloud traffic.  Worked on an org-wide programme migrating datacenter-based monoliths into cloud-based microservices and obtained AWS Solutions Architect certification. |

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| **Build Lead** at **JD Williams**, Manchester, England (April 2014 to March 2015) | |
| A mix of tactical projects, release leading and build automation at a busy e-commerce website | |
| Main technologies used:  Angular, Freemarker, Java, Javascript, Jenkins, JQuery, Spring, Struts 2, Websphere | Joined the web team at this busy e-commerce site, took ownership of changes aimed at increase sales conversion rates and site responsiveness.  TDD with traditional Agile organisation. Took ownership from design through to production, working with product owners and technical stakeholders.  Projects included page architecture refactoring to improve responsiveness, introducing a JSON-adaptor to an existing service providing data to an AngularJS client and automating existing env setup and build deployment activities within Jenkins. |

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| **Founder** at **neury.io**, Manchester, England (January 2014 to April 2014) | |
| Building a Machine Learning SAAS’s API and Web front end on an AWS/Django stack for a startup | |
| Main technologies used:  Angular, AMQP, AWS, Bootstrap, C++, Celery, CUDA, Docker, Django, Heroku, Jenkins, JQuery, JSON, Postgres, Python, REST, S3, scikit-learn | Lead the team at this startup building a new platform to provision, train and query Deep Neural Networks through a web-based REST API and GUI.  Worked from Architecture design and validation to tests and build server through to end-to-end working service with documented customer API. Built an EC2 Jenkins CI pipeline.  Provisioned across EC2 and existing servers using Docker, the product made extensive use of GPU-based Machine Learning workers connected through Celery/AMQP to Django-based web app which served up a mixture of REST APIs and traditional web pages to a front end which was a Bootstrap-based mixture of Angular and JQuery. |

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| **Build Lead** at **Barclays**, Knutsford, England (March 2012 to January 2014) | |
| Running a team adding new features and services to Barclay's [Retail Online Banking](https://bank.barclays.co.uk/) product | |
| Main technologies used:  Axis, Crucible, CXF, JEE, JMS,JSON, JUnit, Maven, MQ, REST, Selenium, SOAP, Spring, Struts 2, Tomcat, Websphere | Lead a variety of feature teams with a mix of onshore and offshore resources.  Liasing with analysts, architects, project managers, test leads and business stakeholders to deliver projects for this top 20 UK website. The nature of the product meant a heavy focus on secure and performant code with strong unit, functional, performance and penetration testing backed up with code review and beta testing.  My work began reviewing designs, estimating effort, validating architectural assumptions/choices before moving onto risk assessment, test data design and environment preparation/validation. During build, my responsibilities shifted to running the build team and resolving any technical issues as they appeared while maintaining project governance standards and code reviews.  The product ran on Websphere with an Oracle DB and a variety of web services, JMS/MQ middleware and mainframes to integrate with. Projects ran using SCRUM-style agile process with a Greenhopper rapid board and daily stand ups. I wrote a Chrome extension as a side project and built up a ‘dev tools’ project. |

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| **Senior Developer** at **Barclays**, Northwich, England (Sept 2010 to March 2012) | |
| Adding new features and services to Barclay's [Wealth Online Banking](http://www.barclayswealth.com/) product | |
| Main tech used:  AOP, JEE, JMS, JUnit 4, Maven, Nexus, Selenium, Spring, Websphere | Building and integrating new services and features around payments, security and mobile APIs. The product ran on Websphere with an Oracle DB using a mixture of Tibco BusinessWorks and Apache Camel for integration.  Also worked on a Selenium build step to provide better functional testing. |

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| **Consultant** at **Capgemini**, Birmingham, England (Sept 2009 to Sept 2010) | |
| Updating and extending an existing Message Broker ESB | |
| Main technologies used:  Artifactory, JAXB, JMS, JUnit, Maven, Spring: Integration, MQ, Message Broker 6.1 | Taking on Thomas Cook's existing Websphere MQ based ESB. Retooling the build and environments to make them consistent and Jenkins/CI friendly. Wrote a JUnit 4 based unit testing framework enabling CI based regression testing of the ESB. Built a new java API to expose new ESB functionality via a JMS bridge using Spring Integration.  The project ran as Scrum based series of iterations using Jira and Confluence to drive the process and documentation. |

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| **Technical Architect** at **BlueSky Travel Systems**, Manchester, England (July 2008 to September 2009) | |
| Designing & building an external API for a J2EE-based reservation engine using TDD and CI | |
| Main technologies used:  CSS, CXF, Grails, Groovy, J2EE/JEE, JiBX, JMS, JUnit, Spring: AOP, JMS, Remoting, SOA, SOAP, TDD, Tomcat, Websphere MQ, Web Services, XML/XSDs | Itour Connect: Extending an existing reservation engine with a set of SOA web services and integrating with a set of client systems. This greenfield project was designed and built from scratch using an internal team partnered with our external client.  I used XMLSpy to map out the XSDs and service definitions with our partner while designing the architecture. Used Spring extensively (particularly the Remoting and JMS APIs) with JiBX to map Java Objects to XML. Added testing interface for SoapUI using Apache CXF. Project run using Test Driven Development and Continuous Integration.  Additional work included working on a Groovy/Grails-based website and refactoring a legacy XML integration layer, making it more performant and lowering the ongoing maintenance and integration effort by introducing Spring’s Remoting and AOP APIs. |

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| **Consultant** at **Shop Direct** (formerly Littlewoods), Liverpool, England (April 2008 to July 2008) |
| Building a set of integration services running on Websphere for this retailer. |
| Back Office integration between Chordiant applications and Oracle PL/SQL procedures using EJBs and Web Services running on Websphere. |

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| **Senior Developer** at **Ultra Airport Systems**, Manchester, England (since June 2006) |
| A large integration project centred on an ESB and webapp product for this Civil Aviation consultancy. |
| UltraIB: Big J2EE integration. This greenfield project involved taking an existing SOA/ESB product (Sonic) and turning it into an integration hub using Spring, JMS and Web Services. Worked on the full lifecycle to see go-live in Shanghai International's new Terminal 2 alongside working on the install in Heathrow’s new Terminal 5.  UltraWeb: Worked on a dashboard JEE webapp using Taglibs, Hibernate, OpenReports (Jasper). |

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| **Senior Developer** at **2ergo**, Rawtenstall, Lancs. (May 2004 to June 2006) |
| A range of Agile projects for this Telco specialising in Mobile and SMS services. |
| Set up a high availability Apache/Tomcat hosting cluster and deploy process, stress testing it using JMeter in preparation for a high traffic launch  Team leading a J2ME client-server prototype, development work on a Spring/Hibernate CMS aimed at creating and managing web/mobile content shops. |

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| **Developer** at **Zendor** 58-60 Whitworth Street, Manchester (July 2001 to May 2004) |
| A series of projects for a variety of clients for a Manchester consultancy formally known as Eunite. |
| [Crockfords:](http://www.crockfords.com/) A pure java casino written from scratch. I worked on the server side, building, testing and integrating game servers. [J D Williams](http://jdwilliamsuk.drct2u.com/home.jsp): A large, complex and busy Websphere webapp. During my time at Zendor I also set up and ran an internal training program getting 90% of the Java developers Sun Certified. |

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| **Developer** at **Viant** 136 Regent Street, London (August 2000 to July 2001) |
| Working for the London office of a consultancy on the first of a platform for future EMAP magazine sites. |
| [MotorcycleNews.com:](http://www.motorcyclenews.com/) A full project lifecycle from design to delivery. An integration of an Oracle based print CMS with Websphere and DB2 on Windows NT. |

# Interests

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| Outside of work I snowboard in the winter and play football, run & climb in the summer.  I read Iain M. Banks books and have terrible taste in music. |

# Education

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| Amazon | Amazon Certified Solutions Architect - Associate |
| Cloud Native Compute Foundation | Certified Kubernetes Administrator |
| Stanford/Coursera | Machine Learning (included neural networks programmed in Octave) |
| Sun Microsystems | Sun Certified Java Programmer |
| Manchester University | *Degree:* BSc (Hons) Computing and Information Systems (2:1) |