Ashley Hindmarsh - Curriculum Vitae - 28 Jan 2016

- 07931 532261
- ash-jobs@best-scarper.co.uk
- British Citizen
- Locations considered: London / Sussex / M23 / remote
- https://uk.linkedin.com/in/ashleyhindmarsh
- Current CV: http://www.bellesoft.uk/ash-cv/ashley.hindmarsh.cv.pdf
- References available upon request

Summary

- 20 years experience as a Java and Perl developer.
- Recent, relevant experience in Agile and DevOps environments, continuous integration/delivery (CI/CD) to Cloud platforms.
- Tech lead on key customer-facing systems for the BBC - the power behind iPlayer.
- Team lead on the (award-winning) BBC Video Factory portfolio - bringing over a million hours of content to all devices.
- Distributed high-availability SOA/web services, and message-oriented backend systems.

Technical

Development

- *This is indicative of my experience but not exhaustive.*
- General: Object-oriented, with a functional mindset. Focus on using TDD/BDD to drive clean, maintainable code.
- Java (5+ years): Spring, Camel, Java8 features, concurrency/threading, JMS, TDD/BDD (JUnit, Mockito, Cucumber-JVM), Servlets, REST (JAX-RS/Jersey), Maven, JAXB, Jackson, Protobuf, Guava, Commons, Hibernate (limited), DropWizard.
- Perl (10+ years): "Modern Perl" (Moose/Moo, Plack etc), DBIx::Class, Carton, XML, Mason, mod_perl
- Ruby (2 years for BDD): REST, XML, Sinatra, rvm/rbenv, gem development, bundler
- Javascript (occasional): Exposure to node.js, JQuery.
- BDD: Ruby/Java, Cucumber, some Jasmine/Selenium.
- Frontend: HTML, CSS, Javascript (JQuery), Bootstrap.
- Also commercial experience with: python, C/C++, GNU toolset (bash etc), openSSL, XML toolchain (XSLT, XQuery, etc), virtualization.
- Personal interests: education; brief dalliances with Scala, node.js.

Data and data processing

- Relational databases (mainly mySQL, also Oracle, Postgres); applications, schema design, optimisation
- "NoSQL" databases (e.g. DynamoDB, Cassandra)
- Caching - (Memcache, Apache/mod_cache)
- Data structure: Storage and messaging (include schema design) using XML, JSON, Protobuf.
- XML data manipulation: XSLT and XQuery.

Delivery

- Architecture: for scale, availability, maintainability, API design, caching, volumetrics, microservices
- Platforms: Linux (mostly RHEL/CentOS, Ubuntu)
- Agile: Scrum, Kanban, continuous integration/delivery, TDD, BDD
- Web Server: Tomcat, Apache httpd, Jetty
- Cloud: AWS architecture and implementation: EC2 (with ELB/ASG), SQS, SNS, S3, IAM, Cloud Formation, Cloudwatch.
- Security: PKI; SAML authentication; hashing, encryption/decryption, signing/verification with XML standards (xmldsig/xmlenc).
- Support software/systems: Jenkins, Maven, Puppet/Ansible, Subversion, Git, Jira, Confluence, Splunk

Experience

Aug 2015-present: Contracting services t/a "Belle Software"

Senior Software Developer (SEO) on-site at Zoopla (Southwark / Nov 2015-present)

- Developing internal SEO engineering platform and reporting framework, for a major website which relies hugely on organic SEO traffic.
- HTML, Javascript, Perl, Google APIs, Google Analytics, AWS Redshift, Birst BI tools.
- Agile design and build of services supporting client-facing and back-end APIs, supporting OTT services.

Senior Software Developer on-site at Sky (Osterley / Aug-Oct 2015)

- Agile design and build of services supporting client-facing and back-end APIs, supporting OTT services.
- Java, Cassandra, Jersey, AWS+Ansible, Docker, Jenkins, AppDynamics, Graphite+Grafana.
- Working environment: Agile with Scrum/Kanban, pair programming with TDD/BDD (Java/Ruby).

2014-(Aug)2015: BBC Digital - Media Services

Team Lead / Principal Software Engineer

- Design and build of components for the BBC's Video Factory. Video Factory ensures that BBC digital audio and video is available to users across a vast range of devices. Components are designed to be highly-available and scalable.
- Java/Camel/Jersey applications, continuous integration (Jenkins), AWS in a devops environment. Extensive use of AWS (EC2/ELB/ASG,CloudFormation,S3,SQS,SNS - limited exposure to DynamoDB and Lambdas).
- Attended AWS Architecture courses. Contributed/presented at BBC internal cloud forum.
- Led a new team, charged with reduction of both AWS costs and technical debt. Developed greenfield components and maintained legacy.
- Maintenance of legacy Perl apps and CI.
- Working environment: Agile with Kanban("Scrumban"), TDD/BDD (Java/Ruby). Some pair programming.

2012-2014: BBC Future Media - Publishing Services

Principal Software Engineer

- Development and maintenance of Java components for Video Factory (details above), and existing Perl components.
- Ongoing tech lead responsibility for the iPlayer's core "Media Selector" component - now at 18 million+ req/day, and ultra-reliably providing secure end-user access to BBC audio and video.
- Designed and delivered a secure SAML gateway for Xbox iPlayer product, which is also used for delivery of paid content to the new BBC Store product.
- Organised coding "dojos" for TDD.

2008-2012: BBC Future Media - Online Technology Group

Technical Lead / Principal Software Engineer (contract)

- Design and delivery of "Media Selector 5" application in Perl; a business-critical, audience-facing service behind all iPlayer playback. Tech: Perl (Moose,Plack), XML/JSON, NoSQL (couchdb).
- Design and delivery of first iteration of "Workflow Engine" a business-critical publishing workflow for iPlayer content. Tech: Perl (Mason), Apache/mod_perl, HTTP, mySQL, DBIx::Class.
- Led the delivery of the playback mechanism for iPlayer 3G/iOS product (Dec 2011).
- Tech lead on major database migration; focus on data integrity, risk management and migration planning.

2007-2008 CAIW Netwerken (contract)

- Maintaining Perl middleware services; reverse-engineered SOAP/WSDL contract from Perl source code for Java clients.

2005-2007 Semantico Ltd

- Developing new client sites (e.g. www.blackwellreference.com) in Perl using Semantico's backend CMS and access management technology.
- Some Java work (Eclipse/Tomcat/Hibernate/PostgreSQL)