

Alasdair Keyes

Contract Developer - PHP, Perl, LAMP Stack, Systems Administration

Nottingham, UK

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Solving business needs with scalable, reliable software; a back-end web developer specialising in PHP8, Perl and Python. With over 20 years of experience in software development and Linux Systems Administration. Thrives in a team environment but can also take initiative and work independently to achieve objectives. Proven results in 8 years of independent contracting for customers from small companies to international corporations. I strive to perform well and have the ability to hit the ground running, pick up new tools, languages and ideas as I go to deliver value.

Skills

PHP 8, Laravel, CakePHP, **Modern Perl, O.O. Perl**, Dancer, Catalyst, Mojolicious, Mod_Perl, **Python**, Django, Javascript, **jQuery**, BASH scripting, CSS, **Git, MySQL, PostgreSQL, Redis**, Cassandra, MongoDB, **RabbitMQ, Apache, NGINX, TDD, SOLID, DRY, KISS**, Agile, **Scrum, Jira**, Trello, **Redhat/CentOS, Debian/Ubuntu**, Rocky Linux, AlmaLinux, SELinux Hardening, **Ansible**, Puppet, Packer, Terraform, **Docker, Docker Compose**, Docker Swarm, AWS, Azure, KVM Virtualization, VMWare, Virtuozzo, LXC, NFS, iSCSI, BIND, PowerDNS, Unbound, Wireguard, OpenVPN, **Exim, Postfix**, SPF, DMARC, DKIM, SpamAssassin, ClamAV, Cyrus, Dovecot, DRBD, GlusterFS, NFSv4, AI Ollama, AI Open-WebUI

Experience

Contract Developer

Cloudee LTD, Nottingham, UK - 2017-Present

- LAMP Stack development. Systems architecture and DevOps contracting services. Specialising in PHP, Perl and Python.
- **Radical Finance (Multiple Contracts)** – Website design and development and customer portal. PHP, Laravel, MySQL, Redis, jQuery, CSS.
- **eShare** - Development of secure fault tolerant, mail filtering system integrating with Gmail/Outlook/Hotmail using Postfix and Cassandra cluster. Developed custom Postfix Mail Failover system for multi-node fault tolerant mail delivery and recovery. Development of automated environment roll-out to Azure. Perl, Python, Packer, Terraform, CentOS.
- **Prestige Fleet Servicing (Multiple Contracts)** - Development internal management portal and customer/staff issue management and resolution system. Website and IP space penetration testing for website vulnerabilities, known software insecurities. Advised resolution paths with systems/procedural best practices going forward. PHP, CakePHP, MySQL, jQuery, CSS. Nmap, OpenVAS, Wapiti, Nikto
- **123-Reg/GoDaddy** - Development of 123-Reg brand. Projects included security audits and code hardening, integration of new payment platform and internal micro-service solution. Developing shop front-end, product refreshes, test-suite expansion and enhancement for better code coverage and more robust code. Perl, Catalyst, Moose, CSS, Javascript, MongoDB, MySQL.

Development Team Lead

Maple Syrup Media (Quidco), Sheffield, UK - 2016-2017

- Managing a team of permanent and contract PHP developers – Liaising and coordinating with other teams in the UK/Europe.
- Developing powerful RESTful API micro-services as part of a Service Oriented Architecture platform.
- Primarily developing in Laravel/Eloquent ORM.
- Developing sites www.quidco.com, www.shoop.fr
- Working on systems migrations project to move data from Legacy WebApp to modern micro-service based platform. Performing systems analysis and design using UML to enable fast development of a workable solution.

- Encouraging adherence to best practices on code reviews, TDD and use of correct design patterns and SOLID principles to develop efficient, loosely coupled code.
- LAMP Stack development. Systems architecture and DevOps contracting services. Specialising in PHP, Perl and Python.

Devops Solutions Engineer

Node4 Ltd., Newark, UK - 2015-2016

- Developing bespoke Highly available, fault tolerant hosting solutions for customers, primarily with AWS.
- Developing systems management scripts to speed system set-up and installation and day to day running and systems management.
- Taking projects from initial consultation through to design and implementation.
- Systems automation and environment management with Puppet.
- Management of AWS EC2, S3, RDS, Cloudfront hosting platform.

Senior Developer/Senior Systems Developer

Daily Internet Services, Nottingham, UK - 2006-2015

- Senior Developer of Daily PLC group websites. Designing and developing PHP/Perl/MySQL websites for different brands – <https://www.daily.co.uk>, <https://www.namehog.net> <https://www.evohosting.co.uk>
- Designed and provided ongoing development of the CRM, ordering and billing platforms for the group's core companies highly available Mod_Perl/MySQL based Web Application.
- Systems integration, importing new brands into the Daily Internet billing, payment and CRM systems.
- MySQL administration and optimization for high performance for multi gigabyte database through correct indexing, normalisation and caching and multi-nodes with replication.
- Integrated multiple payment gateways including Paypal, Sagepay and Datacash.
- Developing against 3rd party APIs for external web service.
- Final level of systems administration support to resolve any outstanding issues from the systems administration team to keep required uptime.

Level 3 Technical Services Specialist

Fujitsu Services, Nottingham, UK - 2006

- Developing web application and back end agents for WAN network monitoring and resource utilisation using Perl, MySQL, SNMP, MRTG.
- Set-up, ongoing management and upgrading of Squid Proxy arrays for 10,000 users.

2nd Line Support

Webfusion/Hosteurope/Pipex, Nottingham, UK - 2005-2006

- 2nd line support and systems administration of shared hosting and VPS systems.

Education

University of Central England (Now Birmingham City University) - 2000-2003

BSc. Software Engineering - Bachelors degree with commendation.

Havant College, Hampshire - 1998-2000

4 A-levels - 3 C Grade, 1 E Grade.

The Hayling School, Hayling Island, Hampshire - 1993-1998 9 GCSEs – 6 A Grade, 3 B Grade.

Qualifications

- Parallels Certified Virtualization Engineer.
- Parallels Certified Automation Engineering.
- Full clean UK driving license.

References

References available upon request.