Patrick McAndrew

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Portfolio: http://urg.name

Career profile

Highly experienced Senior Polygot Developer/DevOps Engineer/Hands on CTO with expertise in cloud technologies, PHP, Node.js, C#, Python, and more. Skilled in a variety of frameworks, libraries, databases, analytics tools, and DevOps technologies. AWS Certified Solutions Architect (Professional) certified.

Languages: javascript/node.js/typescript | php | python | c#
Frameworks/Libraries: react | vue | symfony | lumen | .net standard/.net core
DBs/NoSql: mysql/mssql/postgres | redis/elasticsearch/mongodb/dynamo db
Analytics: mixpanel/google analytics | sixpack (a/b testing)
DevOps: nagios/sensu | jenkins/github actions/azure ado pipelines | puppet/ansible | packer/terraform | varnish/apache/nginx/haproxy | docker/kubernetes
Servers/Cloud: linux (ubuntu, centos)/windows | aws/azure

Career history

Truveal (Remote)   **Consultant**
Dec 2019 - Present
  - Technologies included: Node.js, Python,.Net, Php, Docker, AWS, Azure, Salesforce, Shopify, Ruby
  - Clients included: EWG, BP, Wray Castle, MDSL, Dixons Carphone, Nibble, Open University
  - Drove a digital transformation project from an excel based business to Salesforce & Shopify including Sales, Marketing, e-Commerce, Course Scheduling & Enrolling.
  - Designed and developed a RESTful API supporting multiple tenants, encompassing features such as currency conversions, payment processing, and administrative capabilities.
  - Successfully migrated an OpenAI PHP application into Azure and implementing essential features such as Logging, Exception Handling, and Azure AD Authentication.
  - Implemented DevOps practices by establishing Github Actions CI/CD pipelines, adopting Infrastructure as Code (IaC) principles, and containerising applications
  - Migrated email processing VB desktop application to a C# micro service
  - Migrated, upgraded, dockerized, & improved legacy Windows PHP 5.6 help desk application to Ubuntu PHP 7.4
  - Improved search features and functionality for Curry's E-commerce site

CSN Energy *(London, UK)*   **CTO (Hands on)**
May 2019 – Dec 2019
  - Key Skills: .net core, C#, Azure

- Hired & Lead Dev team of 2
- Architected and started development of Weedex UK (Market Messaging Saas Platform)

[so-sure](#) *(London, UK)*   **Lead Developer => CTO (Hands on)**
Feb 2016 – Apr 2019
- Key Skills: AWS, Php, Mongo, Redis, Ansible, Terraform, Packer
- Lead dev team of 5
- Architected and developed api and website for mobile phone insurance comprising of visitor, user, claims, partner and admin functionality
- Created and implemented business processes around policy purchase, pricing, connections, cancellation, renewals, anti-fraud, claims, and support
- Created a comprehensive financial reconciliation system across policies, card (payment gateway & merchant), bacs, and bank accounts
- Ops responsibility for wearesosure.com site
- Implemented procedures for disaster recovery, backups, automatic fail-overs, server setup/configuration, monitoring and one-click build/deploy procedures

[PeerJ](#) *(London, UK / Remote)*   **Senior Backend Engineer/DevOps Lead**
Sept 2012 – Jan 2016
- Key Skills: AWS, Linux Admin, Php, MySQL, Varnish, Elastic Search, Redis
- Migrated article analytics to AWS EMR/Hive
- Implemented procedures for disaster recovery, backups, automatic fail-overs, server setup/configuration, monitoring and one-click build/deploy procedures

[Tangaro](#) *(London, UK)*   **Hands on CTO**
Aug 2011 – Aug 2012   *(ceased trading)*
- Key Skills: .net 4.0 Web Forms, Umbraco 4.7, MSSQL
- Lead dev team of 3 and various outsourced resource
- Architected and implemented [clipDO.com](#) including developing Apis, Bookmarklets, and Browser Extensions
- Completed projects in Telecom industry included an iPad data analysis / reporting app

Certifications

[AWS Certified Solutions Architect (Professional)](#), [Professional Scrum Master I](#), [Azure Developer Associate](#) [see [LinkedIn Certifications](#) for full list]

Education
[Georgia Institute of Technology](#)   **BSc Computer Science**

Patents
[Assessing condition of real-world objects](#)   **US & EU Patent Approved**

Computer skills: Skill (# years experience)

- **Languages**: HTML (22.25), JavaScript (21.5), CSS / Saas (21.25), SQL (18), Batch Files (14), Shell Scripting (11.25), TSQL (10.25), PHP (9.75), C# (8), ASP.Net (7), NodeJS (6.5), Perl (6.5), VB (4.5), Python (3.5), Typescript (2.25), T4 (1.75), PL/pgSQL (1.5), Apex (0.5), Ruby (0.5)
- **Frameworks**: .net Framework (7+), Symfony (7+), Entity Framework (2+), Serverless Framework (1+), Vue.js (1+), Django (<1), Laravel/Lumen (<1), SailsJS (<1), Gatsby (<1), React (<1), Redux (<1)
- **Development Software:** Git (10+), Github (10+), Visual Studio (7+), Phing (5+), Gimp (5+), Source Safe (5+), Xcode (3+), PHP Storm (3+), Tortoise SVN (3+), Azure DevOps (3+), NuGet (2+), Visual Studio Code (3+), Postman (2+), Cruise Control (1+), Nant (1+), Bitbucket (<1), Jira (<1), Gitlab (<1), Octopus Deploy (<1)
- **Libraries:** jQuery (10+), Bootstrap (7+), AWS Api (7+), Payment Gateways (7+), Sixpack (5+), SwiftMailer (5+), Linq (5+), Log4Net (3+), Google Api (3+), Elastica (3+), SQLite (5+), MSMQ (2+), WCF (2+), Webpack (1+), LWC (<1), Visual Force (<1), ExpressJS (<1)
- **Testing**: PHPUnit (3+), Nunit/MSunit (3+), CasperJs (3+), JMeter (3+), Jest (2+), Cucumber (2+), Nmock (2+), Selenium (2+), Testcafe (1+), Specflow (<1)
- **Servers:** IIS (10+), Apache (7+), HaProxy (7+), Varnish (5+), Nginx (3+), Subversion (3+), ArcServe (3+), Exchange (3+), NTCronD (1+), Opalis Robot (1+), MS ISA Server (1+), Backup Exec (<1)
- **Monitoring**/**Observability**: Monit (5+), Nagios/Icinga (5+), Rollbar (3+), HappyApps (3+), Pingdom (3+), NewRelic (3+), DataDog (3+), MRTG (3+), Sensu (3+), Sentry (3+), GrayLog (3+), Pushmon (3+), Munin (3+), Sitescope (2+), Grafana (1+), Thundra (<1)
- **DB**: SQL Server (10+), MySQL (7+), Redis (5+), MongoDb (3+), Elastic Search (3+), Kibana (3+), Verity (2+), Postgres (1+), Oracle (<1)
- **DevOps**: Jenkins (7+), Terraform (5+), Ansible (3+), Packer (3+), Puppet (3+), Azure DevOps Pipelines (2+), AWS CDK (1+), Github Actions (<1)
- **Operating Systems / Cloud:** Linux (CentOS/Ubuntu), (15+), Windows (10+), Window Server (10+), Amazon AWS (10+), Mac OSX (10+), Docker (7+), Scalr (3+), Rackspace (2+), Azure (2+), Hadoop / Hive (1+), Novell (1+), MSDOS (1+), Kubernetes (<1), XenServer (<1)
- **Networking:** TCP/IP (15+), FTP (15+), DNS (15+), SMTP (15+), SSL (15+), VPN (7+), DHCP (7+), WINS (5+), SNMP (2+)
- **SAAS**: Google Analytics (7+), Google Tag Manager (3+), HotJar (3+), Optimizely (3+), Mixpanel (3+), Mandrill (3+), Shopify (<1), Postmark (<1), Adobe Analytics (<1)
- **Methodologies/Architectures**: DevOps (10+), Agile/Scrum (10+), Microservices (3+), Graphql (3+)
- **Data/Documentation**: XML/XSLT (10+), JSON (7+), UML (7+), OpenApi (2+)
- **AWS Services:** IAM (10+), VPC (10+), S3 (7+), Cloudwatch (7+), Route53 (7+), SES (7+), SNS (7+), EC2 (7+), ElasticCache (7+), KMS (7+), Api Gateway (5+), Lambda (5+), RDS (5+), Secrets Manager (5+), Certificate Manager (3+), Cognito (3+), Connect (3+), Database Migration Service (3+), EMR (3+), SQS (3+), EventBridge (1+), Grafana (1+), DynamoDb (1+), Systems Manager (1+), XRay (1+), Cloudformation (1+), ECR (<1), ECS (<1), CodeDeploy (<1), Lex (<1), OpenSearch (<1), CloudTrail (<1), CodeCommit (<1), CodePipeline (<1), EKS (<1), WAF (<1), CodeBuild (<1), CodeArtifact (<1), PCA (<1)
- **Azure**: Enterprise Apps (1+), Storage (1+), Function Apps (<1), Service Bus (<1), App Services (<1), Log Analytics (<1), App Insights (<1), OpenAi (<1), MySQL (<1)
- **CRM/CMS**: Hubspot (3+), Umbraco (2+), Wordpress (<1), MS CRM (<1), Salesforce (<1), Hugo (<1)