

## Patrick McAndrew

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Portfolio: <http://urg.name>

### Overview

Senior Polygot Developer/DevOps/Hands on CTO (Cloud, Php, Node, C#, Python)

**Languages:** javascript/node.js/typescript | php | python | c#

**Frameworks/Libraries:** react | vue | symfony | lumen | .net standard/.net core

**DBs/NoSql:** mysql/mssql | 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

[BP](#) via Apex Systems (*Remote*)

**Contract Developer**

**Nov 2021 - Mar 2023**

- Key Skills: Node, Typescript, AWS, Azure, OpenApi, CDK
- Added features to micro-services on BPme Re-platforming Project designed to handle 10k+ physical sites over 5+ markets w/32k transactions/day
- Lead on Reporting System (micro-service) for Management designed & implemented to have 0 impact on production api response time
- In top 5 leading devs for productivity (of 100+ team members) based on story points closed over 2022

[Accession Healthcare Consulting](#) (*Remote*)

**Contract Developer**

**July 2021 - Oct 2021**

- Key Skills: Php, Lumen, Vue, Typescript, Terraform, AWS, Github Actions
- Migrated production app from smaller hosting provider (virtual host) to Docker + AWS Fargate
- Setup Github Actions CI/CD pipelines for Lumen Api and Vue frontend SPA
- Architected & modelled (Terraform) AWS infrastructure for new application

[Nibble](#) (*London, UK*)

**Contract DevOps**

**May 2021 & Nov 2020 - Dec 2020**

- Key Skills: Python, AWS, Serverless, Terraform, Docker, Kubernetes, React, Node.js, Next.js
- Migrated a manual configuration single environment api to use Terraform, Serverless, Docker, & Kubernetes with support for multiple environments
- Migrated ECS Fargate cluster to EKS Kubernetes cluster
- Containerised Shopify app (Node/React) & migrated from Mongo to MySQL

[Wray Castle](#) (Remote)

**Contract Digital Transformation Lead**

**Oct 2020 - Apr 2021**

- Key Skills: Salesforce, Apex, LWC, Shopify, Azure, C#, Canvas LMS, Shopify
- Drove a digital transformation project from an excel based business to Salesforce & Shopify including Sales, Marketing, e-Commerce, Course Scheduling & Enrolling

[MDSL](#) (Remote)

**Contract Developer**

**June 2020 - Sept 2020**

- Key Skills: .Net, Php, Docker, Microservices, MS Graph Api
- Migrated email processing VB desktop application to a C# micro service
- Migrated, upgraded, dockerized, & improved legacy Windows PHP 5.6 helpdesk application to Ubuntu PHP 7.4

[Dixons Carphone](#) (London, UK / Remote)

**Contract Senior Software Developer**

**Dec 2019 - Apr 2020**

- Key Skills: Php, Elasticsearch, AWS, Terraform, Docker
- Improved search features and functionality for Curry's E-commerce site
- Recommended and implemented improvements to code quality, monitoring, and relevancy testing

### **Previous roles include**

Permanent Hands on CTO (UK) at [CSN Energy](#) (2019)

Permanent Lead Developer/Hands on CTO at [so-sure](#) (2016 - 2019)

Permanent Senior Backend Engineer/DevOps Lead at [PeerJ](#) (2012 – 2016)

Permanent Hands on CTO at Tangaro (2011-2012)

### **Certifications**

[AWS Certified Solutions Architect \(Professional\)](#), [Professional Scrum Master I](#), [Tensorflow Developer Certificate](#)

### **Education**

[Georgia Institute of Technology](#)

**BSc Computer Science**

### **Patents**

[Assessing condition of real-world objects](#)

**US/EU Patent Pending**

## Computer skills: Skill (# years experience)

- **Languages:** HTML (15+), JavaScript (15+), CSS / Saas (15+), SQL (15+), XML/XSLT (10+), Batch Files (10+), Shell Scripting (10+), TSQL (10+), PHP (7+), C# (7+), ASP.Net (7+), NodeJS (5+), Perl (5+), Classic ASP (3+), VB (3+), Wscript/VBScript (3+), COM (3+), Python (3+), CFML (2+), Typescript (1+), T4 (1+), WMI (1+), Jscript (1+), Silverlight (1+), SSIS (1+), Java (<1), DTS (<1), QT (<1), Objective C (<1), Apex (<1), C/C++ (<1), Ruby (<1), PL/SQL (<1)
- **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), MS Sync Framework (<1)
- **Development Software:** Git (10+), Github (10+), Visual Studio (7+), Komodo Edit (5+), Phing (5+), Gimp (5+), Source Safe (5+), Xcode (3+), PHP Storm (3+), Tortoise SVN (3+), Clubhouse (3+), Interdev (3+), Eventum (3+), NuGet (2+), Visual Studio Code (3+), Cruise Control (1+), StyleCop (1+), Azure DevOps (2+), Nant (1+), FXCop (1+), Crystal Reports (1+), Bitbucket (<1), Jira (<1), Perforce (<1), Ncover (<1), Gitlab (<1), MS TFS (<1), Octopus Deploy (<1), Win Phone 7 (<1)
- **Libraries:** jQuery (10+), Bootstrap (7+), AWS Api (7+), Payment Gateways (7+), Sixpack (5+), SwiftMailer (5+), Linq (5+), Log4Net (3+), MS Enterprise Lib (3+), Asp.Net Membership (3+), Google Api (3+), Elastica (3+), SQLite (3+), MSMQ (2+), Asp.Net AJAX (2+), Ajax Control Toolkit (2+), WCF (2+), ManagedWinapi (1+), Webpack (1+), JQuery Tools (1+), Flowplayer (1+), Telerik Ajax (<1), LWC (<1), Visual Force (<1), Peewee (<1), ExpressJS (<1), Nhibernate (<1), csdialup (<1), HardwareHelperLib (<1), ManagedPipe (<1), Zedgraph (<1), Shinobi Charts (<1), NeatUpload (<1)
- **Testing:** PHPUnit (3+), Nunit/MSunit (3+), CasperJs (3+), Cucumber (2+), Nmock (2+), Selenium (2+), RhinoMocks (1+), Testcafe (1+), Jest (1+), Mocha (<1), Specflow (<1), Moq (<1)
- **System Software:** SQL Server (10+), IIS (10+), Apache (7+), HaProxy (7+), Jenkins (7+), Varnish (5+), Redis (5+), Monit (5+), Nagios/Icinga (5+), MySQL (7+), MS VSS (5+), Ansible (3+), Nginx (3+), Terraform (3+), MongoDB (3+), Elastic Search (3+), Kibana (3+), Packer (3+), MRTG (3+), Subversion (3+), Sensus (3+), GrayLog (3+), Puppet (3+), Jmeter (3+), Munin (3+), ArcServe (3+), Exchange (3+), Cold Fusion (2+), Umbraco (2+), Allaire Forums (2+), Verity (2+), Sitescope (2+), hMailServer (2+), CDK (1+), Grafana (1+), NTCronD (1+), Opalis Robot (1+), MS ISA Server (1+), Postgres (1+), Wordpress (<1), Backup Exec (<1), Oracle (<1), MS CRM (<1), XenServer (<1)
- **Operating Systems / Cloud:** Linux (CentOS/Ubuntu), (15+), Windows (10+), Window Server (10+), Amazon AWS (10+), Mac OSX (10+), Docker (5+), Scalr (3+), Rackspace (2+), Azure (1+), Hadoop / Hive (1+), Novell (1+), MSDOS (1+), Kubernetes (<1)
- **Networking:** TCP/IP (15+), FTP (15+), DNS (15+), SMTP (15+), SSL (10+), VPN (7+), Ethernet (7+), DHCP (7+), WINS (5+), T1/T3 (2+), SNMP (2+), WLAN (2+), DSL (1+), IPX (1+), Token Ring (<1)
- **SAAS:** Google Analytics (7+), Rollbar (3+), HappyApps (3+), Google Tag Manager (3+), DataDog (3+), HotJar (3+), Optimizely (3+), Mixpanel (3+), Hubspot (3+), Pingdom (3+), NewRelic (3+), Sentry (3+), Mandrill (3+), Pushmon (3+), Shopify (<1), Thundra (<1), Salesforce (<1), Adobe Analytics (<1)
- **Methodologies/Architectures:** DevOps (10+), Agile/Scrum (10+), Microservices (2+)
- **AWS Services:** IAM (10+), VPC (7+), 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)