

# Curriculum Vitae

Pat Mc Grath

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## PERSONAL STATEMENT

I am a software professional with 20 years experience delivering solutions for the financial services industry. I've worn many hats in my career - solution\technical architect, team leader, software engineer, database administrator, systems administrator and build engineer. As a result, I draw on these experiences when solving technical problems.

During this time I have been responsible for:

- Leading, guiding and assisting technical teams on system architecture, design and implementation
- Communicating and facilitating future vision of the software portfolio
- Championing the inclusion of quality assurance and operations team members participation in projects from project inception through delivery
- Researching, evaluating and adopting a wide variety of technologies
- Championing appropriate new\alternative technologies to further enhance the business and provide new opportunities
- Mentoring and training technical team members
- Championing software delivery processes, standards and quality

## EMPLOYMENT HISTORY

**TravelRepublic, London, UK.**

**May 2015 – Present  
Senior Developer**

Working as part of a team migrating to a Microservices architecture.

Technologies: c#, Powershell, Bash, .NET v4.5.1, Docker, RabbitMQ, Go CD, Microsoft SQL Server 2008 R2, Git, Windows 2008 R2, Ubuntu 14.04

**Continuum Commerce Solutions, Kerry, Ireland.**

**Jul 2007 – Aug 2014  
Technical Architect**

Designed and implemented services in support of evolving DCC (Dynamic Currency Conversion) and (MCP) Multi-Currency Pricing solutions. This included:

- Integration with Global Distribution Systems (Amadeus, Navitaire, Sabre)
- Integration with airline systems (Etihad Airways, Air New Zealand, Monarch)
- Integration with payment service providers (Visa, CyberSource, MasterCard Internet Gateway Service)
- Hosting merchant web site's payment workflow
- Migration of existing solutions architecture to a SOA\Microservices architecture, standardising on REST for synchronous communication and RabbitMQ for asynchronous communication
- Migration to continuous integration with automated deployments
- Migration to a fully virtualized VMware environment
- Migration to git source control

- Centralised logging using Elasticsearch, Logstash and Kibana
- Metrics collection using StatsD and Graphite
- Centralised reporting using Microsoft SQL Server 2008 R2 Reporting Services (SSRS)

Technologies: c#, Ruby, golang, Powershell, Bash, .NET v4.5.1, Mono v3.0, Docker, RabbitMQ, MSMQ, Microsoft SQL Server 2008 R2, MongoDB, Redis, Git, Subversion, Windows 2008 R2, Ubuntu 12.04, Ubuntu 14.04

#### **Global Currency Exchange, Kerry, Ireland.**

**Feb 2004 - Jul 2007**  
**Technical Architect**

Designed and implemented a multi-currency solution that was a replacement for existing custom solutions, this included the first ever online DCC (Dynamic Currency Conversion) offering.

Technologies: c#, .NET v3.0, MSMQ, Microsoft SQL Server 2005, Subversion, Microsoft Windows 2003

#### **Global Currency Exchange, Kerry, Ireland.**

**Mar 2001 - Feb 2004**  
**Development Team Lead**

Development and maintenance of a number of custom back office DCC (Dynamic Currency Conversion) solutions.

Technologies: Microsoft Visual Basic .NET, c#, Microsoft SQL Server 2000, Microsoft Visual SourceSafe, Microsoft Windows 2000

#### **FEXCO, Kerry, Ireland.**

**May 1997 - Mar 2001**  
**Senior Software Engineer**

Development and maintenance of an online accommodation booking website and a corporate VAT refund processing system.

#### **Commonwealth Bank, Sydney, Australia.**

**Jun 1996 - Apr 1997**  
**Software Engineer**

Provided product support for a range of products on the currency trading floor.

#### **FEXCO, Kerry, Ireland.**

**Nov 1994 - Apr 1996**  
**Software Engineer**

Development and maintenance of data entry platforms for tourism and corporate VAT refunds.

#### **EDUCATION**

Waterford Institute of Technology, Ireland  
Bachelor's Degree, Computer Software Engineering, 1992 - 1994

Institute of Technology, Tralee, Ireland  
National Diploma, Computer Software Engineering, 1989 – 1992

#### **ADDITIONAL INFORMATION**

I am a co-founder of the local Kerry Technology User Group.  
I have presented on numerous topics at local technology groups.