

# Paul O'Connell

## Lead Software Development Engineer

### Contact

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### About

I have been involved in the software industry for nearly 20 years working in both product and consulting environments across financial services, insurance and telecom industries internationally. Interested in leadership roles where I can share my architectural and delivery experience to a wider group of customer and engineering stakeholders. As a team leader, I enjoy balancing delivery of projects with team development using agile methodologies with test driven design and continuous integration methodology to develop N-tier applications. With a MSc. Network and Distributed Systems I enjoy learning new technologies with current interests including Gatsby, Go and Spring Cloud Data.

### Profiles

**GitHub**  
emeraldjava

**Stackoverflow**  
emeraldjava

### Work

#### Mastercard

October 2019 — Now

##### Lead Software Development Engineer - Customer Data Management

The Customer Data Management group provides a single set of API to our customers to configure their products.

##### Highlights

- Team lead for a complex migration of data and messaging services from legacy SOAP request to cloud based REST Apis.
- Design, development and release of Spring Boot / Batch / REST / OpenApi applications with full integration test coverage.
- Automated integration and deployment pipelines using Jenkins, Docker and Ansible to Pivotal Cloud Foundry.
- Large scale data migration and processing using Apache Nifi as a platform.
- Release management and planning, interview and developer support.

#### Mastercard

August 2017 — September 2019

##### Lead Software Development Engineer - Commercial

The Commercial payments group support Virtual Credit Cards allowing rules to be configured and validated in real-time to support B2B payments.

##### Highlights

- Team lead for the InControl real time Auth message processing system.
- Design and development of features across API servers, authentication and frontend nodes.
- Supported improvements to CI/CD practices and investigating how we can apply 'automate-everything' practices to database and cloud deployments.
- Support the product and business owners to incrementally deliver business value in each iteration.

#### BearingPoint

March 2015 — July 2017

##### Senior Technical Consultant

I worked as a Senior Java developer focused on the delivery of the Infonova R6 platform to our clients.

##### Highlights

- Senior Dev, Team Lead and Scrum Master at various times during this engagement.

- Delivery of new features, support current production issues while attempting to improve processes of E2E testing and test environment support.
- Involved with a proof-of-concept project to demonstrate how our solution could be deployed to the Azure Cloud, and use vagrant / docker for internal test deployments.
- I have been asked as a mentor to junior members to the firm and team. I have been involved with the delivery of internal technical training courses.

## **Aegon**

July 2012 — December 2014

### **Senior Software Engineer, Contract**

Chief Designer and developer for a new batch platform that generates daily hedging files for multiple products. The system was implemented using Spring Batch to allow the actuarial team to manipulate data on the fly using rules defined via Spring Expression Language.

#### **Highlights**

- Involved with user Acceptance Testing and Live production releases.
- Extended the existing integration test framework to support reporting of code coverage metrics for all modules via Sonar on a nightly basis.

## **Arantech**

January 2011 — June 2012

### **Senior Software Engineer, Contract**

Java Contractor working on various Customer Experience Management components in the Touchpoint and Proaction products.

#### **Highlights**

- Implemented a generic entity framework to handle database operations in the core Touchpoint product.
- Created a test framework for integration and system testing of the product.
- Introduced the use of the sonar code quality engine to the organisation.

## **Aegon**

October 2009 — October 2010

### **Senior Software Engineer, Contract**

Java Contractor within the Aegon office providing support for UK and Dutch pension providers.

#### **Highlights**

- Implemented a validation service that allowed for reuse of rule hierarchies across products and locales from a database configuration.

## **Terranua**

March 2008 — September 2009

### **Software Engineer, Contract**

Java Contractor within Terranua's consultancy group focused on providing a risk control system to the Fidelity organization.

#### **Highlights**

- Risk Reporting: Responsible for a risk reporting system which queries risk details from a database and creates an XML report
- There are then transformed via XSL to HTML and Word formats for user preview and printing.

## **Norkom**

October 2007 — February 2008

### **Software Engineer, Contract**

Java Contractor within Norkom's development group which delivered a financial crime and compliance application that can be deployed into various J2EE server and database environments.

#### Highlights

- Watch List Management Day to day work involved bug fixing and small pieces of new development on various branches of this sub-project.

### Curam

September 2006 — September 2007

#### Software Engineer

Curam provide a social enterprise management solution that can be customised for various social welfare organisations across the globe.

#### Highlights

- Worked on the Unemployment Insurance product within the workflow group which involved the full software development lifecycle on various J2EE platforms.
- Implementation of a unit testing framework and tools to auto-generate unit test stubs from the project model.
- Maintenance of the smoke test and continuous integration systems.

### UBS

January 2003 — May 2006

#### Software Engineer

International assignment as a software developer within the Foreign Exchange IT group in Zurich, Switzerland and London, England

#### Highlights

- ZFM is a real time settlement and reconciliation system based on XML messaging over MQ. As Project Leader responsibilities included the design and implementation of an API, the planning and co-ordination of development and testing, both within our group and with other departments.
- The system consists of various java applications communicating via XML and MQ. A web-based tool supports tracking and supervision of messages within the system.
- eBus provides a consolidated view of all deal confirmation messages within the FX trading platform.
- As project lead I was responsible for the design of a common message specification, implementation with XML/XSL over MQ, and the co-ordination of the testing and release phases.

### Ericsson

October 2000 — December 2002

#### Software Engineer

RANOS is an operations and management system for Ericsson's 3G telecommunications radio network system.

#### Highlights

- Member of a framework group which provided generic server-side components.

## Skills

### Spring

- Core
- Boot
- Batch
- Integration
- SpEL
- Cloud
- Data

### Java

- 6,8,11
- J2EE
- JPA
- Security
- Concurrency
- Reflection
- TDD

- Social
- Test

- Sun Certified Java Developer

## Dev Ops

- Jenkins
- Ansible
- Docker
- Kubernetes

## Web

- Spring MVC
- Angular2
- Typescript
- React
- Bootstrap

## XML

- JAXB
- XSL(T)
- XPath
- FOP-XSL
- SOAP

## Servers

- Tomcat
- Apache
- JBoss
- Websphere
- Weblogic
- Glassfish
- Jetty

## Cloud

- PCF
- Azure
- Heroku

## Databases

- Oracle
- Postgresql
- Mongo
- MSSQL Server
- Informix
- MySql
- ElasticSearch

## Build/CI Tools

- GIT
- Maven
- Gradle
- ANT
- Jenkins
- Sonar
- Jacoco
- SVN
- Github Actions
- Gitflow

## PHP

- Wordpress
- Zend Framework
- Composer
- Laravell

## Other

- Gatsby
- Kotlin
- Go

## Education

### Trinity College Dublin

September 1999 – September 2000


#### M.Sc Network and Distributed Systems Masters

#### Courses

- Dissertation Title: Collaborative Ad-hoc Applications - An investigation into the use of trust based security in ad-hoc JINI systems.

### Trinity College Dublin

September 1995 – June 1999

 **B.A.I in Computer and Electronic Engineering, B.A in Engineering Mathematics**  
Degree

#### Courses

- Final Year Project Title: Digital Filtering System for Internet Telephony.

## Volunteer

### **Business Houses Athletic Association**

January 2010 – Now

#### **Webmaster and past Chairperson**

<http://bhaa.ie/>

The BHAA organise running races on an inter-firm basis.

#### **Highlights**

- Development of a wordpress plugin for online viewing of race results and leagues.

## Publications

### **Publication**

September 2000

Published by **Trinity College Dublin**

[View publication](#)

Collaborative Ad-hoc Applications