

Curriculum Vitae

Paul Richard Gowers

IT Consultant with 34 years experience (ex-Oracle and freelance for 25 years)

TDB Software Ltd.
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Skills Summary

Design Skills

Data modeling (logical, class, physical), data flow, state transition, sequence, process
Object oriented design, SOA, integration.
Database design (transactional and data warehouse using Kimball)
Appreciation of big data

Teaching

Learning Tree instructor since 2001 (Perl and Oracle PL/SQL courses)

Programming Languages

Oracle PL/SQL, SQL, Perl, 'C, Pro*C, XML Schema, Java

Relational Database

Oracle, SQL Server, MySQL, HANA, TOAD

Other

Open API3 (YAML), XML Schema, XML, XSLT, SOA, SOAP, JavaScript, Apache, ASP, IIS,
Oracle Webserver, HTML,

Tools

PowerDesigner, ADO, System Architect, Jira, Business Objects (Designer, Reporter,
Supervisor) , Web Intelligence

Platforms

Unix (Linux, Solaris, OSX, HP-UX), Windows

Office

Microsoft Office Excel VBA.

Client List

Centrica (British Gas)
Oracle
Scottish and Southern Energy
Glaxo SmithKline
BT
General Electric
Learning Tree
EDS
Rank Xerox
SpinVox
Miramedia
River Island

Centrica PLC

Staines, Middlesex

Contract Data Architect – 07/2018 – 07/2020

- Data Architect working on API strategy using SAP API Management (based on Apigee). Responsible for designing interfaces in Open API3 (YAML) using Enterprise Data Model in Powerdesigner which I migrated from System Architect. Development and tuning work of Cloud HANA database views on which APIs were based. The project was Agile using ADO and Github.
- Data Architect leading team of four working on a brand new energy industry facing application. The application is being designed and developed as a configurable framework built in SAP Gateway, PO/PI and HANA. My team was responsible for the application database design plus all configuration documents, data and mappings between back-end systems and the industry for nineteen business processes such as Change of Supply Gain/Loss, New Registration, Disputes etc. The project used Jira to manage/monitor user stories and work progress.

Scottish and Southern Energy PLC (now Ovo)

Havant, Hampshire

Contract Technical Analyst – 05/2015 – 06/2018

- Worked as part of Design Governance with external suppliers to ensure that requirements and designs met with technical and regulatory requirements. Represented SSE at industry meetings and provided critical review feedback. Provided expertise to internal Smart Design Authority. Subject matter expert for SMETS2 smart metering, DCC, DUIS, MMC, GBCS and SEC
- Built DUIS Service Request (SR) forecast tool in Excel to allow SSE to meet its SEC obligations to provide forecast of SR volumes and internal anomaly detection levels. Later provided requirements for strategic tool to do same.
- Authorised Responsible Officer (ARO) for Smart Meter and DCC Key Infrastructure (SMKI & DCKI). Liaised with meter manufacturers in this role for meter security keys.

Centrica PLC

Staines, Middlesex

Contract Data Designer – 04/2010 – 04/2015

- Data architecture and design for British Gas Enduring Smart Infrastructure Program. Subject matter expert for DCC web services (DUGIS, MMC) down to XML schema level. Deep knowledge of SMETS2 smart meter standards and GBCS. Worked with Enterprise Architects, Solution Architects and SAP functional architects to support delivery of programme level data architecture. Closely worked with external suppliers to agree interfaces (XML schema based) for web service and file interfaces including smart readings data storage (MDUS). All data design artifacts produced using System Architect and mapped to business data model.
- Represented British Gas at several Energy UK meetings in review of GBCS alerts and MMC interface design.
- Solution Architect for real time credit vet service solution for British Gas Business based on Experian web services, SAP CE BRM, Java, JPA and Business Objects Data Services. Responsible for high-level design and detailed data design and implementation (Oracle 11GR2). Also responsible for review of all detailed design documents from outsourced provider (Cognizant).
- Technical lead for British Gas data archive and retention project to ensure compliance with British Gas Archive and Retention standards and identify activities to resolve issues.
- Designed Synergy Oracle 10GR2 database for British Gas Business Service Management and Contract Management tactical systems. Designed and implemented stored procedure API and load procedures in PL/SQL. This database was subsequently significantly extended and updated to 11GR2 to support "BRITE" debt management engine, a business rules based debt chase engine written in SAP CE and Java, and support the real time credit vet service (see above). Worked closely with SAP CE, JPA and BODS supplier teams.
- Designed data interfaces in XML schema and SAP ESR for Enterprise SOA services using System Architect, XML schemas and Enterprise Systems Builder.

- Data modeling using entity modeling in IBM System Architect (version 11).
- Agile scrum master and data designer for Merlin Home-Move project, mainly on web service design.
- Technical interviewer

SpinVox Ltd (now Nuance)

Marlow, Bucks

Contract Software Engineer – 03/2009 – 03/2010

- Designed and built tools in Perl and intranet web site for analysis of messages to identify common text patterns. Implemented in Perl 5.8 using Mysql, Apache2 and Linux.
- Designed XML schema for configuration of automated speech conversion tool. Built evaluation web tool in Perl for assessing, creating and amending the configurations. Worked with senior management team within SpinVox on this project.
- Re-styled internal dictionary management web application using CSS2. Liaised with users and then designed and built a new CSS framework for all menus and re-styled all pages after which the tool was accepted by users.

Glaxo SmithKline

Brentford, Middlesex

Contract Technical Architect – 02/2008 – 02/2009

- Large data migration project to re-implement Agile PLM from v8.5 to v9.2.2.3 and migrate application and business data from old to new data structure. Data model mapping of old and new versions and definition of data migration paths and mappings.
- Data migration implemented using Oracle PL/SQL on 10G release 2 for moving data between fields, change field data types, mapping data for 130 fields. Complex PL/SQL using extensive dynamic SQL and manipulation of Agile 9.2.2.3 data dictionary.
- Designed and built suite of 35 XML stylesheet documents (XSLT v2) to extract, filter and sort data from Agile ACP exported XML files to support Agile configuration comparison using windiff. I built a Java module to apply XSLT files to XML files.
- Wrote SQL data extracts against Agile 8.5 and Agile 9.2.2.3 databases in preparation for data migration
- Oracle database tuning work to drastically improve slow running PL/SQL and SQL queries.
- Liaison with offshore development team in Hyderabad, India including offshore work period.
- Documentation using GSK internal standards (iQMS) that are regulated by FDA and other pharmaceutical regulatory bodies.
- All work at GSK was in close co-operation with GCV, the audit group of the company.

Learning Tree International

Central London

Contract Consultant – 01/2001 - ongoing

- Freelance instructor for Learning Tree International, teaching courses: “Oracle PL/SQL Programming” and “Introduction to Perl Programming”. In addition to technical skills, this role requires excellent communication and presentation skills, class, time and people management.
- Paul is in Learning Tree’s top grading range based on class evaluations.

SpinVox Ltd (now Nuance)

Marlow, Bucks

Contract Software Engineer – 05/2007 – 02/2008

- Perl and 'C' software developer with some C# support. Developed several SMS sender modules in Perl for communicating with customer systems. Modules are run using Daemontools on Linux, and fetch messages from mysql database using DBI and send SMS messages using Net::SMPP. Some programs have to work asynchronously to respond to server 'keep alive' requests, so required signals and alarms.
- Significantly enhanced 'C' SMS server program to make it multi-threaded to improve throughput and made it utf8 compatible to handle foreign language messages. Program acts as SOAP server (via Gsoap 2.6), to accept incoming messages via SOAP, breaking them and storing them in mysql database for later processing.
- Developed several new web pages (Perl/FastCGI/Apache) for monitoring and controlling SOAP servers. Basic input/output using HTML fields and server communication via Perl SOAP::Lite module.
- Database tuning work to improve slow running queries in Informix.
- Improvements to message injection and ejection Perl programs to cater for specific requirements of new customers (usually custom email header parameters).

Versatile Delivery Systems

Harrogate, Yorks

Technical Director – 06/2006 – 04/2007 (full time)

- Continuing in similar role as consultant, but on a full time basis as V.D.S. gets new software developed and launched. Paul is a shareholder in this business.
- Liaison with offshore development team in Mangalore, India including offshore work period.

Contract Consultant – 09/2002 – 05/2006 (part time)

- Provide technical expertise as part of ongoing relationship with V.D.S as they develop digital asset management tools. Work includes requirements definition, customer visits and detailed technical research. Designed Frameline 47 product XML mappings to MPEG7 XML schema.

BT Global Services

Contract Consultant – (09/2002 – 05/2006)

Concert Communications

Contract Consultant (10/2001 – 08/2002)

BT Fastrack

Contract Consultant (05/2001 – 10/2001)

Miramedia

Sub-Contractor (07/2000 – 04/2001) – work offsite on fixed price project basis

EDS (Xerox account)

Contract Consultant (03/2000 – 09/2000)

GE Lighting Europe

Contract Oracle Consultant (08/1997 – 03/2000)

EDS (based at Xerox)

Contract Analyst/Programmer (02/1995 – 08/1997)

Oracle UK (Permanent Staff) – HR Product Development Group

Principal Software Engineer and Team Lead (06/1992 - 02/1995)

Senior Software Engineer (07/1990 - 06/1992)

Software Engineer 2 (07/1989 - 07/1990)

Protek Ltd (Permanent Staff)

London.

Software Engineer (08/1987 – 07/1989)

Education**University of Surrey 09/1982 – 03/1986**

Master of Engineering (**MEng**) in Electronic & Electrical Engineering
- Pass with Distinction

Hounslow Manor School 09/1975 – 07/1982

'A' levels - Maths(**A**), Physics(**A**), Electronics(**A**), Chemistry(**B**)

'O' levels - Maths(**A**), Physics(**A**), Chemistry(**A**), English Lit.(**A**)

English(**B**), German(**B**), Electronics(**B**), Geography(**B**)

GCSE- Italian (**A**) (1996 at evening classes)

Head Boy: 1981 – 1982, House Captain: 1980 - 1981

References (phone and email on request only)

Kostas Poullos
Head of Integration
Centrica

Michael Constable
Director of Consulting Delivery for
Cyber/Secure Systems
CGI (formerly at SSE)