

# Peter Kusenda

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## Education

- 1994-1998 Faculty of Electrical Engineering and Information Technology  
Slovak University of Technology, Bratislava  
Bachelor Degree in Informatics  
6<sup>th</sup> best student out of 160
- 1998-1999 Faculty of Electrical Engineering and Information Technology  
Slovak University of Technology, Bratislava  
Master Degree in Software Engineering specialization  
Diploma Thesis: Non-standard character recognition (AI, neural networks, Visual C++/MFC)
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## Skills and knowledge

### *Programming languages and environments:*

- C# .NET, F# .NET
- Oracle PL/SQL, MSSQL
- Asp.Net Core, ASP.NET MVC, SPA
- WPF 4.0, Entity Framework
- JavaScript / ES2015, TypeScript
- AureliaJS, Durandal, Knockout, Breeze, Q, Underscore, Require JS, Bootstrap, jQuery, SignalR
- Unix Scripting, VB Script
- C

### *Operating systems, platforms, architectures, paradigms, protocols:*

- Windows, Unix (FreeBSD, Linux)
  - Web, WebApi
  - COM+ / MTS / DCOM, multi-tiered architectures
  - .NET Enterprise Services
  - Microsoft BizTalk 2004 Server
  - Oracle eBusiness Suite 11i (OM, AdvPricing)
  - MSMQ Queued Components
  - Zeroc ICE
  - SOAP Web Services, WCF
  - TCP/IP, Sockets, Client/Server architectures
  - Object oriented analysis (OOA), design (OOD) and programming (OOP)
  - Git, Perforce, SVN, SourceSafe, Teamcity, Jira
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## Work experience

- Project: **TheHub**  
Company: Quantessence  
Location: Prague, Czech Republic  
Duration: November 2016 – Present

Description: Application server build upon Asp.Net Core 2.2 web server managed via SPA web GUI based on Aurelia JS framework and monitored by a windows service. Also a few simple WPF clients simulating client activities. Developed in team of 3 developers.

Technology used:

- C# .NET 7.0, WPF
- MsSql
- DryIoC, Newtonsoft Json, Moq
- AureliaJS, SPA, TypeScript, Html, Web api, Kestrel
- Bootstrap, JQuery, Lodash, SignalR 2
- Visual Studio 2017, Git, Teamcity, Jira, Gogs

- Project: **Corporate website**  
Company: EmbedIT  
Location: Prague, Czech Republic  
Duration: May 2014 – July 2014  
Description: Corporate website that presents essential information about the firm, the news and advertised jobs. Also allows candidates to submit their job applications. Hosted on Azure cloud. Developed in team of 3 people.

Technology used:

- C# .NET, ASP.NET MVC 5, SPA, HTML, Web API, JavaScript
- Durandal, Knockout, Breeze, Q, Underscore, Require JS, Bootstrap, jQuery
- Entity Framework 6, Code first EF migrations, WCF
- Visual Studio 2012, SQL Server 2012, Microsoft Azure
- Git

- Project: **Corporate intranet portal**  
Company: EmbedIT  
Location: Prague, Czech Republic  
Duration: August 2014 – October 2016  
Description: Intranet portal that offers useful applications, widgets, workflows and documents for employees. Single page application. Sharepoint 2013 is used as data store / backend.

Technology used:

- C# .NET, SPA, HTML, Web API, TypeScript, JavaScript, SVG
- Durandal, Knockout, Breeze, Q, Underscore, Require JS, Bootstrap, jQuery, SignalR
- Entity Framework 6, Code first EF migrations, Unity IoC, NuGET
- Microsoft SharePoint 2013
- Visual Studio 2012, SQL Server 2012
- Git

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- Visual Studio 2012, SQL Server 2012, Microsoft Azure
- Git

- Project: **MicroCPPI**  
Company: Barclays Capital  
Location: Prague, Czech Republic

Duration: March 2012 – April 2014  
Description: Internal fund CPPI strategy management application in Equity derivatives technology, client-server (WCF). Developed in team of 3 people.

Technology used:

- C# .NET 4.0, F# .NET, Visual Studio 2010/2012, WPF, MVVM, Spring.NET, Resharper, XML, WCF, TPL
- SQL Server 2005/2008
- NUnit, Rhino Mocks
- Atlassian Jira, Jet Brains Team City

- Project: **Marking Viewer / Soft Market Data Vol Fitter**  
Company: Barclays Capital  
Location: Prague, Czech Republic  
Duration: April 2011 – February 2012  
Description: Internal soft market data volatility curve fitting application development (client-side) in Equity derivatives technology.

Technology used:

- C# .NET 4.0, Visual Studio 2010, WPF, WPF Skinning, Prism, MVVM, Unity IOC, Resharper, XML, XSD
- ZeroC ICE, Infragistics DataPresenter, Infragistics DockManager, log4net, BLToolkit, Expression Blend, Solace Messaging
- NUnit, Rhino Mocks
- SVN, Atlassian Jira, Jet Brains Team City, NuGet

- Project: **Hermes**  
Company: Barclays Capital  
Location: Prague, Czech Republic  
Duration: August 2009 – March 2011  
Description: Internal PnL/Risk management application development (server-side) in Equity derivatives technology.

Technology used:

- C# .NET, Visual Studio 2010, JetBrains ReSharper, Design Patterns
- DB2 UDB to Oracle 11g migration, Oracle PLSQL
- Subversion, Perforce, Atlassian Jira, Atlassian Confluence, continuous integration, JetBrains TeamCity
- NUnit, Rhino Mocks, unit tests

- Project: **Ascot**  
Company: Barclays Capital  
Location: Prague, Czech Republic  
Duration: August 2008 – June 2009  
Description: Internal application development in Equity derivatives technology.

Technology used:

- C# .NET, Visual Studio 2005, JetBrains ReSharper
- XML, XSD
- MSSQL
- Perforce SCM, CC.NET, Atlassian Jira, Atlassian Confluence
- NUnit, Rhino Mocks, unit tests, mocking
- Inversion of Control, design patterns

- Project: **IN**  
Company: Logica, s.r.o.  
Location: Prague, Czech Republic  
Duration: June 2008 – July 2008  
Description: Small technological enhancement and tuning of an existing solution of another Czech GSM operator built on Biztalk Server 2004. The enhancement targeted the inability of

the solution to perform correct binding on SQL statements emitted to Oracle database degrading performance of the database and the Biztalk solution itself.

Knowledge used:

- Microsoft Biztalk Server 2004
- Visual Studio 2003
- C# .NET
- Oracle 10g, PL/SQL
- XML, XSD, XSLT

- Project: **UDS**  
Company: LogicaCMG, s.r.o.  
Location: Prague, Czech Republic  
Duration: September 2002 – March 2008  
Description: Analysis, design, implementation, extension and performance tuning of a 'customer care and services' enterprise application for a Czech GSM mobile operator. The typical tasks the system handles are mobile subscriber information and service management and mobile goods retail sales. The system is based on the Microsoft multi-tiered netcentric architecture (DNA), built around COM+ programming model, processing distributed transactions in a heterogenuos environment. DCOM interfaces are utilized to cooperate with other MS-based systems. Long-running operations are executed via MSMQ queued interfaces. During 2004 we switched to .NET so all major enhancements to GUI and business logic are done in ASP.NET and business logic is implemented in C# exploiting the .NET Enterprise Services. Implemented by a team of 6-15 people.

[Update from 2nd November 2006]: Our application is currently being enhanced to communicate with one of the key backend systems via Tibco messaging and integration platform. New business domain object model (feat. lazy loading for time consuming operations) has been introduced to support the integration.

Frontend: MS Windows 2000, MS Internet Explorer 5.5, DHTML, JavaScript  
Backend: MS Windows 2000, MS IIS 5.0, ASP, XML, XSLT, ASP.NET  
Business logic: MS Windows 2000, COM+, Visual Basic 6.0, Visual C++ 6.0, ADO, C#.NET, Enterprise Services, consisting of 3 internal sublayers: general Business Facade sublayer, Business Logic Objects sublayer and Data Access sublayer  
Database layer: Oracle, PL/SQL Stored Procedures, ArborOM, GeneriX, MSSQL

Knowledge used:

- C# .NET
- Visual Basic
- JavaScript
- VBScript, ASP
- ASP.NET
- ADO, ADO.NET
- .NET Interop
- HTML, DHTML, XML, XSLT
- MS Visual InterDev, MS IIS 5.0
- MS Visual Studio 2003, MS Visual Studio 2005
- Oracle DB / PL/SQL ver. 8, 9i
- COM+ / DCOM automation, transaction processing, administration
- MSMQ Queued Components, asynchronous processing
- Oracle performance tuning
- Load balancing (F5's BigIP balancer)
- Visual SourceSafe
- Subversion
- Mobile networks operation business therminology, Arbor Order Management and GeneriX inventory basics

- Project: **Enterprise Application Integration Concepts & Prototypes**

Company: LogicaCMG, s.r.o.  
Location: Prague, Czech Republic  
Duration: February 2004 – July 2004  
Description: Solution proposal, analysis, design and implementation of conceptual prototypes for mobile network operator's enterprise application integration. Two prototypes of UDS application (refer to previous project below) serving for evaluation of integration feasibility with new logistics management systems were developed. A prototype of a complex integration middleware platform that will provide a single interface for service provisioning functionality (covering core backend systems) followed. The prototype featured integration-messaging-broker based architecture built on Microsoft BizTalk 2004 server.

Knowledge used:

- C# .NET
- Visual Basic
- SOAP Web Services
- Microsoft BizTalk 2004 Server
- XML
- .NET Interop Services, .NET Enterprise Services, ADO.NET
- Oracle PL/SQL
- Oracle Order Management (part of Oracle Business Suite) basics
- Windows 2003 Server

- Company: **Accenture, GmbH**  
Location: Frankfurt am Main, Germany  
Duration: October 2001 – April 2002  
Position: Analyst  
Description: Internal projects only

- Project: **Advanced Territory Management System**  
Company: TopSolution Slovakia, s.r.o.  
Location: Bratislava, Slovakia  
Duration: January 2001 – September 2001  
Description: Complete development cycle (analysis, design, implementation) of advanced version of Territory Management System used for storing and retrieving data about clients of medical products distribution company. Application is a common front-end application providing some application logic by means of standard form-oriented user interface implemented in Microsoft Visual Basic 6.0. Database used is Microsoft Jet OLEDB driver used via ADO interface. Application also utilizes a few non-standard ActiveX components from third party vendor (Infragistics UltraGrid, Calendar, DayView controls). Application also features its own user management (with crypto-secured passwords via custom ActiveX component and fine-grained access control), database driven multilanguage support, extended filtering and searching capabilities for displayed data and export to Microsoft Excel via OLE/Automation.

- consists of 19 forms, 12 modules, 3 class modules, in total 10000 lines of Visual Basic code

- database consists of 40 tables

Knowledge used:

- application analysis, design, implementation
- database structure design and implementation in Microsoft Access
- standard GUI design
- object oriented programming (OOP)
- SQL for Microsoft Jet driver
- testing
- documentation authoring (standard Windows .hlp files authoring)
- standard installation packaging

- Project: **ESM Converters**

Company: TopSolution Slovakia, s.r.o.  
Location: Bratislava, Slovakia  
Duration: May 2001 – June 2001  
Description: Implementation of set of data converting utilities implemented in Microsoft Excel and Microsoft Access using Microsoft Visual Basic for Applications (VBA). These utilities convert data from various data sources (using proprietary tabular data formats) to common ESM format used in Merck Sharp Dohme Idea Slovakia. The resulting data are stored in excel sheet.

- Implemented in Visual Basic for Applications (VBA) in Microsoft Office 97
- Consisting of 6 converters implemented by total of 2100 lines of VBA code

➤ Project: **Unix/Windows Administration and Integration**  
Company: A.I.S., s.r.o.  
Location: Bratislava, Slovakia  
Duration: January 1998 – March 2000  
Description: Administration of firm's internal LAN consisting of Windows and Unix (FreeBSD) hosts. Taking care of services provided, network infrastructure and applications. Implementing some cross-platform interoperability concerning file and resource sharing (mail servers, web servers, file servers, print serving).

Knowledge used:

- LAN network planning and physical deployment:
  - Twisted-pair and coaxial ethernet
  - HUBs
  - routers
  - modems
- TCP/IP LAN infrastructure administration and monitoring
- Windows Primary Domain Controller and Backup Domain Controller setup
- WINS services
- DNS services (BSD unix)
- LAN/WAN security - IP firewalls (BSD unix ipfw interface)
- Network Address Translation (BSD unix)
- DHCP service (BSD unix)
- TCP/IP Application and File Services deployment
- Windows-Unix (CIFS/SMB) file sharing and printing services interoperability over TCP/IP (Windows file sharing, Unix Samba service)
- Web services on Windows (Internet Information Server), Unix (Apache)
- FTP service on Unix
- SMTP (mail) services on Unix (sendmail, exim), POP3/IMAP4 mail servers
- Secure Shell (SSH) service on Unix
- Dial-in service for modem users on BSD Unix
- general BSD unix host security
- BSD kernel configuration
- fault tolerant disk storage for BSD using Vinum mirrored disks (software RAID-0)

➤ Project: **ELIS Converters**  
Company: Slovak Railways  
Location: Bratislava, Slovakia  
Duration: July 1996 – September 1996  
Description: Set of data converting utilities that convert data representing railway schedule from the form used in German railways into form of French railways. These data are then transformed into database that serves as an schedule information source for ELIS information system used in Slovak Railways for country-wide public information service.

- Implemented in C on Digital UNIX 4.0 (Compaq Tru64), Alpha 4000 systems
  - Consisting of 6 converters implemented by total of 10000 lines of C code
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### **Languages**

- English           Fluent
- Slovak           Native
- Czech            Fluent

### **Certificates**

- British Council: Business English Certificate Vantage (B2 level).

### **Trainings**

- MSDN Trainings: .NET Programming in C#
- Tony Whitter: WPF Development (2011)
- Learning Tree: SQL Server Performance Tuning (2012)

### **Hobbies**

- Dancing (salsa)
- Music (keyboards)
- In-line skating, skiing, table tennis, squash
- Technologies, Physics

Last update: 12th March 2019