



Niels Hede Pedersen

Software Developer. Year of birth 1964
Speciality: Software development on the Microsoft platform.

Summary: I am an experienced developer who has been developing professional software on the Microsoft platform for the past sixteen years. I have good collaborative skills and am focused on delivering quality solutions on time. My broad experience in a wide variety of fields enables me to understand the customer and business requirements.

Website: nhpfreelance.dk

Linkedin: <https://www.linkedin.com/in/nielshedepedersen>

Work Experience

2010 -	Freelance consultant
2007 - 2010	Danske Bank Group A/S, Denmark
Software developer	
2006 – 2007	Elbek & Vejrup A/S, Denmark
Software developer	
2001 – 2006	Fujitsu Services A/S, Denmark
Software developer	
2000 – 2001	TDC Services A/S, Denmark
Software developer	

Competencies

Tools

- Microsoft Visual Studio
- Microsoft SQL Management Studio
- Microsoft Visual Studio Team Foundation
- Internet Information Services

Programming languages

- C#
- C++
- Javascript
- T-SQL

Technologies

- .Net
- ASP.Net
- WinForms
- WCF
- Relational databases

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Education

2007	Microsoft Certified Technical Specialist
2000	Microsoft Certified Solution Developer

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Publications:

E-books on [WCF](#), [Angular](#), [ASP.Net MVC](#) and [jQuery](#)

Project References

Envision

2018/04 – 2018/10

Role: Development, architect

Projekt: Development of websites and backend components.

Tasks:

- Development using C#, ASP.Net MVC and Angular 2
- Development of automated UI test with Selenium

Technologies used: .Net 4.5, C#, ASP.Net MVC 5, Angular 2, typescript, javascript, jQuery, Bootstrap, HTML5, CSS3, SQL Server 2014, Entity Framework, Visual Studio 2017, Team Foundation Server, Selenium web test framework

Grundfos A/S

2017/09 – 2018/02

Role: TFS consultant, development

Project: Configuration of automated build and test with TFS 2013 / 2017, migration to VSTS.

Tasks:

- Migration of C++ code base to enable automated build.
- Configuration of server build in TFS 2013
- Migration to TFS 2017
- Migration to VSTS
- Various bug fixes

Technologies used: C++, MFC, .Net 4.0, C#, Powershell, Visual Studio 2013, Team Foundation Server, VSTS

Envision

2016/08 – 2017/09

Role: Development, architect

Projekt: Development of websites and backend components.

Tasks:

- Development using C#, ASP.Net MVC and Angular 2
- Analysis re development of web service
- Unit test
- Debugging
- Configuration of TFS re "continuous integration".

Technologies used: .Net 4.5, C#, ASP.Net MVC 5, Angular 2, typescript, javascript, jQuery, Bootstrap, HTML5, CSS3, SQL Server 2014, Entity Framework, Visual Studio 2017, Team Foundation Server

Netbooster

2016/02 – 2016/08

Role: development

Project: Development and bug fixing in websites and backend programs.

Tasks:

- Development in C# and javascript
- Unit test
- Debugging

Technologies used: .Net 4.5, C#, ASP.Net MVC 5, javascript, jQuery, HTML5, CSS3, SQL Server 2012, Visual Studio 2015, SVN, Unit test, Moq

Milestone systems

2015/05 – 2015/07

Role: development

Project: Development and bug fixing in video surveillance software.

Tasks:

- C# development
- Database development
- Debugging

Technologies used: .Net 4.5, C#, SQL Server 2012, Visual Studio 2013, Windows forms, CVS

KMD A/S

2012/11 – 2014/12

Role: Analysis, design and development

Project: Development of complex server components for a time-management system. Migration and further development of existing solution from C to C#/.Net/Sql Server and design of test strategy. Analysis, design and implementation of components for automated test. Data modeling. Use of mainframe-based web services via a SAP PI bridge. Use of Visual Studio 2013, SQL Server 2008 and 2012, Team Foundation Server and SCRUM development proces. Development of and use of WCF services.

Tasks:

- C# development
- Database development
- Unit Test
- Automated test
- Analysis and design of framework and data model
- Performance analysis and test

- Debugging
- Documentation

Technologies used: .Net 4.5, C#, C++, Microsoft Entity Framework, SQL Server 2012, Visual Studio 2012, WPF, Integration with SAP PI, SCRUM, TDD, Linq, WCF, SOAP UI

VIA University College

2013/05 – 2013/07

Role: Design, development and test.

Project: Development of website, where students can confirm or deny their choice of education.

Tasks:

- ASP.Net development.
- Design of web pages based on specification.

Technologies used: .Net 4.5, C#, Microsoft Entity Framework, Sql Server 2008, Visual Studio 2012

Nunaminerals A/S

2012/06 – 2012/08

Role: Geologist

Project: Exploration for metallic resources in Greenland.

Tasks:

- Geological mapping
- Geological exploration and sampling.

NNIT A/S

2011/02 – 2011/10

Role: Development

Project: Development of WCF services and a new three-tier application for Danish central administration.

Tasks:

- C# development
- Database development
- Test
- Documentation
- Assistance to junior developers

Technologies used: .Net 4.0, C#, WCF, ASP.Net, Sql Server, Linq2sql, AJAX framework, javascript.

KVIK Køkken

2011/01 – 2011/02

Role: Development

Project: Customization of IPPhone / headset interaction. The project centered around the Windows usb api.

Tasks:

- Development
- Test
- On-site installation.

Technologies used: C++, C#, Windows API

SIKOM

2010/12 – 2011/02

Role: Development

Project: Development of a pluggable component that displays live video from an Axis surveillance camera.

Tasks:

- Development
- Test
- On-site installation.

Technologies used: Html, javascript, Axis API

Hapiday

2010/12 – 2011/03

Role: system design, Development, Web development, database development.

Project: Development of a 'mini-cms' for a major shopping mall in Aarhus.

Tasks:

- Requirements collection and analysis.
- Design and documentation.
- Development
- Test
- Administration

Technologies used: ASP.Net, C#, javascript, css, SQL Server

Danske Bank Group A/S

2007/03 – 2010/03

Role: System design, Development, Web development

Project: Development of ASP.Net controls (WebControl). The web controls

were part of a comprehensive software package used by in-house developers. The end result was a series of visual controls that could be applied on ASP.Net pages using the Visual Studio IDE.

Tasks:

- Requirements collection and analysis.
- Design and documentation.
- Review.
- Implementation in ASP.Net C#.
- Test and Unit Test.
- User documentation.
- Incorporation in development environment.

Technologies used: ASP.Net, C#, javascript, css, Windows Forms

Danske Bank Group A/S

2009/06 – 2010/02

Role: Systems design, Development, Web development

Project: Establishing external logon and user registration on the corporate internet. Leveraging an existing legacy user registration service an ASP.Net-based framework was built and integrated with Sharepoint, thus allowing internet users to register on the corporate web site and log in in order to apply for vacant jobs, etc.

Tasks:

- Analysis, design and prototyping, including interface to mainframe backend systems.
- Implementation in ASP.Net and MOSS

Technologies used: ASP.Net, Web services, MOSS

Danske Bank Group A/S

2008/10 – 2009/04

Role: Support, debugging

Project: Onsite assistance to users in connection with first use of the product. I provided assistance to and gathered feedback from a group of new users, thus functioning as a middleman and product "evangelist".

Tasks:

- Assistance on site.
- Follow-up on problems and challenges.

Elbek & Vejrup A/S

2006/10 – 2007/02

Role: Systems design, Development, Web development

Project: Development of web applications for external customers. One of these was an administrative solution for a university hospital involving complex workflows. Another was a customer portal developed for a large wholesale vendor of automobile spare parts.

Tasks:

- Data modeling
- Software design
- Implementation
- Test

Technologies used: ASP.Net, C#, Microsoft SQL Server, Stored procedures, SQL Server Reporting Services, javascript, css

Fujitsu Services A/S

2002/01 – 2006/07

Role: Architect, design, Development, Web development, debugging, performance optimization.

Project: Development of a "web client" for electronic document management system. This comprehensive project involved much architectural work in the beginning and then the construction of a generic framework to allow for the design and implementation of GUI screens in a custom tool. The project also involved the construction of a runtime framework and communication with backend services.

Tasks:

- Development of architecture.
- Design and implementation of a generic framework for the building and configuration of user interface elements and a runtime environment.
- Design and implementation of components, including web services, for integration to third party systems.
- Migration of components written in VB to C#.

Technologies used: .Net, C#, C++, Visual Basic, COM+, MS SQL Server, T-SQL, ASP, IIS, XML, XHTML, CSS, javascript, vbscript, WinDBG, Windows Forms.

Fujitsu Services A/S

2004/08 – 2006/07

Role: Systems design, Development, datadesign

Project: Design and implementation in C# of a series of components that allowed for the definition of validation rules. The product allowed for the definition of business validation rules in a custom-made tool, thus eliminating

the need to write validation code for each rule.

Tasks:

- Design and implementation of data model, tabels, views and stored procedures.
- Design and implementation of components in C#.
- Design and implementation of configuration tools using C#.

Technologies used: SQL Server, Visual Studio, C#, Windows Forms.

Fujitsu Services A/S

2005/03 – 2006/07

Role: Systems design, Development, datadesign

Project: Establishing a framework for the definition and running of batch jobs. The task involved architectural considerations, data modeling and several components running in the backend tier. With this product the user could configure background jobs to run at regular intervals.

Tasks:

- Design and implementation of data layer.
- Design and implementation of a Windows Service to orchestrate the running of batch jobs.
- Design and implementation of associated components.

Technologies used: Windows Services, .Net, C#, Visual Studio, SQL Server

Fujitsu Services A/S

2004/03 – 2006/07

Role: Systems design, Development

Project: Development of programs, components and infrastructure to do the daily build of all components in the product - about 1000 parts, including COM components authored in VB and C++, .Net components, tlb files, etc.

Tasks:

- Requirements gathering.
- Definition of XML schema used for system input.
- Design and development of a program to manage the build.

Technologies used: .Net, C#, C++, Windows Forms, XML, VMWare

Fujitsu Services A/S

2005/07 – 2006/07

Role: Systems design, System architecture

Project: Integration between the product (an electronic document

management system) and external systems in public administration. The project involved calls both from and to external systems. The integration was partly in the form of web services, partly in the user interface.

Tasks:

- Taking part in SCRUM meetings with customers.
- Design of solutions.
- Implementation and test.
- Presentation of solutions and follow-up with customers.

Technologies used: SCRUM, .Net, XML Schema, ASP.Net, Web Services

Fujitsu Services A/S

2004/11 – 2006/07

Role: Systems design, Development

Project: Development of a framework for logging and tracing purposes, to be used globally in the product. This task established a product-wide concept for easily doing tracing from code in a uniform, configurable and fine-grained manner. The trace logs could be consolidated from multiple servers and could be searched and filtered with a custom-made tool.

Tasks:

- Architecture and design
- Implementation of components and tools
- Deployment and administration of supporting configuration

Technologies used: .Net, Windows event log, C#, Windows Forms

Fujitsu Services A/S

2005/10 – 2006/07

Role: Systems design, Development

Project: Development of a framework to handle the caching of data, product-wide, to save on database queries. This entailed holding the results of frequently-issued queries in memory on the business-tier servers together with logic for how and when to refresh the cached data.

Tasks:

- Design of components, configuration, etc.
- Implementation of Windows service in C#.
- Implementation of associated components and adaptation of existing components.
- Configuration of Microsoft Message Queueing.

Technologies used: .Net, C#, C++, MSMQ

Fujitsu Services A/S

2004/08 – 2006/07

Role: System administration, Development

Project: Establishing a "symbol server" to handle symbol files for all parts of the product to ease and enhance the debugging efforts of developers. This was in large part an infrastructural task. The overall gain was increased developer productivity and better quality.

Tasks:

- Installation and administration of dedicated server to handle symbol files.
- Configuration of Visual Studio to make use of this server.
- Authoring the manual for developers.

Technologies used: Microsoft Debugging tools for Windows, Visual Studio

Fujitsu Services A/S

2005/05 – 2006/06

Role: Systems design, Development, System administration

Project: Development of a intranet portal for developers. The portal was implemented in Sharepoint and facilitated communication between developers, project managers and testers.

Tasks:

- Requirements gathering.
- Development of portal.
- Deployment and administration of portal.

Technologies used: Sharepoint services, C#, ASP.Net

-Other Competencies

Technologies (continued)

- Linq to sql
- ASP.Net MVC
- jQuery
- Angular
- Microsoft Entity Framework
- COM+
- Windows DNA
- ADO.Net
- SOA
- XML
- XHTML
- Visual Basic 6
- Client-server architecture
- Ajax
- Resharper
- ATL

- Web Services
- Microsoft Windows
- Design patterns
- CSS
- MSMQ
- ASP
- STL
- ATL
- MFC

Languages

- Danish (mother tongue)
- English (fluent)

Other Education

Education (continued)

2001 Aarhus Business college
Bachelor course, Programming 1

2000 Aarhus Business college
Bachelor course, Analysis and design 1

2000 Aarhus Business college
Bachelor course, Databases 1

2000 Aarhus Business college
Bachelor course, General IT

1990 – 1996 University of Aarhus
Master of Science, Geology

1983-1985 Aarhus School of Business
Business language specialist, English and Spanish