

LANCE LARSEN

Madison, WI | mail@lancelarsen.com | www.lancelarsen.com | 608.467.6868

SUMMARY

Highly motivated & creative engineer with over 12 years experience as a Senior .Net Software Architect / Team Lead.

Excellent design, engineering and communication skills with an outstanding analytical, organizational, and creative nature.

Aggressively pursues extending knowledge of key technologies, and mentoring team members so everyone is working with highest level of knowledge and thus achieving the highest efficiency in accomplishing individual and team objectives.

President of the Madison, WI .NET User Group.

Masters Degree in Computer Science & Applied Mathematics, Bachelors Degree in Mechanical & Aerospace Engineering.

SKILLS, KNOWLEDGE & ABILITIES

Technology Focus

- Microsoft .NET Visual Studio 2008 / 2005
 - C# – .NET Framework 3.5 / 2.0 / 1.1
 - WPF / XAML
 - AJAX
 - LINQ
 - Silverlight 1.0
 - .NET Compact Framework (Pocket PC)
 - ASP.NET / GUI Design
 - MSMQ – MS Message Queuing
- MS Enterprise Library: Patterns/Practices
- XML / XSLT
- JavaScript
- SQL / Transact SQL (T-SQL) / MS-SQL

Skill Focus

- Leadership Skills
 - Leadership of Development Team
 - C# Training Classes Lead
- Key Development Skills
 - Application Architecture
 - Database Architecture / Design
 - Full Development Lifecycle
 - Automated Unit Testing
 - Bug Tracking & Reporting
 - Usability Design / Acceptance

Background Information

- Natural US Citizen
- Certified Government Background Check

Application Focus

- Microsoft Applications
 - Visual Studio.NET 2008 / 2005
 - SQL Server 2005 / 2008
 - Internet Information Server (IIS 6 / 7)
 - Microsoft TFS / Visual SourceSafe
 - SQL Server Reporting Services
- dotNet Nuke – CMS (Content Management)
- Development Project Types
 - ASP.NET Web Application
 - Smart Device Application
 - ASP.NET Web Service
 - Windows Application
 - Windows Service
 - Class Library

TRAINING, PRESENTATIONS & CERTIFICATIONS



.NET User Group Presentations

- Microsoft® Robotics Developer Studio 2008 / Microsoft Visual Programming Language (VPL)

InnerWorkings Training

- .NET Framework 3.5 Programming Using Visual C# 2008
- Developing Web Applications with ASP.NET AJAX using Visual C# 2005/2008
- Silverlight 1.0 Programming using Visual C# 2005/2008
- Programming Windows Communication Foundation using Visual C# 2005/2008
- Programming Windows Workflow Foundation Using Visual C# 2005/2008
- Object-Oriented Design & Development with the .NET Framework & Visual C# 2005/2008
- Transact-SQL Development using Visual C# 2005/2008
- Enterprise Library for .NET Framework 2.0



Microsoft Certified Application Developer (MCAD) Curriculum

- **Course 2310:** Developing Microsoft ASP.NET Web Applications Using Visual Studio .NET
- **Course 2124:** Programming with C#
- **Course 2073:** Programming a Microsoft SQL Server 2000 Database
- **Course 2389:** Programming with Microsoft ADO.NET
- **Course 2524:** Developing XML Web Services Using Microsoft ASP.NET

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EXPERIENCE



Mar, 2008 – Nov, 2008

OliviaGreets – Chicago, IL (Madison, WI)

Senior .NET Application Architect

Olivia Greets is a VoIP based global remote receptionist service with a touch-screen Avatar interface.

- VoIP (Voice over IP) communication architecture utilizing SIP / Asterisk server.
- WPF (Windows Presentation Foundation) consuming WCF (Windows Communication Foundation) services, with SQL server backend.

OliviaGreets

[C# 3.5, WPF, WCF, LINQ, VoIP, SIP, Asterisk, SQL]

- Created "VisitorView" WPF application
 - Utilized ShockWave Flash Avatar rendering software on a touch-screen wall mounted computer
 - Transmitted both SIP based audio and video to a remote call center.
- Created "CallCenter" WinForm C# 3.5 application
 - Displays the SIP based audio and video for a call center operator.
 - Allowing not only full remote control of the Avatar's speech, but remote control of doors at the site, and the ability to display various types of content, such as video/audio, maps and web sites to visitor.
- Utilized SIP (Session Initiation Protocol), an IP network protocol for VoIP (Voice over IP).
- Full Life-cycle development from concept, to architecture, to implementation, to successful product launch in the marketplace.
- Worked remotely with team of architects in conjunction with Chicago development staff.



Jan, 2006 – Jan, 2008

FirstData Government Solutions – Cincinnati, OH

Senior Application Architect

FirstData is a national electronic payment, electronic tax filing & electronic service management company.

FirstData Government Solutions specialized in handled government contracts.

- Application Architecture
- Database Architecture / Design
- Certified Government Background Check

Authenticare (ACR)

[C# 2.0, ASP.NET, AJAX, MSMQ, JavaScript, SQL Server, SQL Reporting Services, XML / XSLT]

- Authenticare automated management of in-home care; automated scheduling, tracking and billing of provider visits. Met full HIPAA compliancy.
- Full Life-cycle development from concept to implementation, with distributed n-tier architecture.
- Worked remotely with team of architects spread across the country.
- Performed architecture analysis, load-testing and performance tuning of application at Microsoft's MTC (Microsoft Technology Center) in Mountain View, CA.

C# Training Classes Lead

[C# 2.0, ASP.NET, SQL Server, XML]

- Co-lead national mentoring program, teaching programming skills and concepts.
- Provided employees located across the country with the highest level of knowledge on Microsoft technologies, architectural concepts, and optimal code implementation in order to facilitate the highest efficiency in accomplishing business objectives.
- Developed, presented and oversaw training using InnerWorkings training materials.

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Mar, 2004 – Present

SecuredPay – Cincinnati, OH

Chief Technology Officer / Senior Architect

Partner in SecuredPay whose focus is on providing wireless restaurant order entry and secure PIN debit card transaction processing right in restaurant customer's hands. This process eliminates fraudulent security risks such as "skimming" (the act of copying down the credit card number by the server).

- Application Architecture
- Database Architecture / Design

SWIPE (Secure Wireless Internet Payment Environment)

[C# 3.5/ 2.0, Smart Device/Compact Framework, Windows Mobile 5.0, WebServices, SQL Server]

- Created a suite of smart device Pocket PC applications, which provide a restaurant server the ability to securely take a customer's order directly at the table on the device, and more importantly allows the customer to process real-time PIN debit transactions via the virtual PIN pad.
- First and only application that passed PCI (Payment Card Industry) certification for a virtual PIN pad debit application on a PocketPC. The application securely creates 3DES encrypted PIN blocks, thus allowing for real-time PIN debit transaction in the hands of a restaurant customer.
- Designed security suite applications that apply security modification and monitoring. Once enabled these applications completely lock the PocketPC down, eliminating all access to the device and disabling non-essential applications.
- Created transaction gateway WebService application that communicates between the device and is integrated into bank processors to facilitate real-time transactions and merchant reporting.

Jan, 2005 – Dec, 2005

US Bank / K-Force Consulting – Cincinnati, OH

Senior Software Engineer

US Bank is the 6th largest commercial bank in the United States.

- Application Interface Usability Design / Acceptance
- Automated Unit Testing

AccountRecon (Account Reconciliation)

[C# 2.0, ASP.NET, JavaScript, SQL Server, XML / XSLT]

- Account reconciliation was essential core business application ensuring an accurate comparison of the departmental account records to the generated reports, identifying errors and inconsistencies and issuing the appropriate corrections.
- Full Life-cycle development from concept to implementation, with distributed n-tier architecture.

Aug, 2003 – Jan, 2005

Medpace, Inc. – Cincinnati, OH

Senior Software Engineer / Lead Developer

Medpace is a fully integrated clinical research organization that partners with the pharmaceutical and biotech organizations to bring new drugs to market.

- Leadership of Development Team
- Application Architecture
- Database Architecture / Design

Laboratory Information System (LIS)

[C# 1.0 / 1.1, ASP.NET, JavaScript, SQL Server, XML / XSLT]

- Lead a team of 10 individuals in developing a custom Laboratory Information System (LIS) for an in excess of 4 million dollar laboratory startup business.
- LIS manages all aspects of the laboratory including everything from laboratory protocol setup, to interfacing test results from lab instruments, to end user daily reporting.



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Aug, 1997 – Aug, 2003

Evolv Adaptive Technology – Cincinnati, OH

Senior Software Engineer / Lead Developer

Evolv's core focus was upon practical application of Artificial Intelligence programming techniques. With this goal in mind Evolv created Skipjack, an internet credit card processing company.

- Application Architecture
- Database Architecture / Design

S.A.F.E. – Security Against Fraudulent Ecommerce

[C++ MFC, ASP, JavaScript, SQL Server]

- Using Artificial Intelligent techniques and heuristic analysis, SAFE profiled transactions based on a number of criteria, gauged the probability of fraudulence, and thus greatly reduced merchant liability.

Skipjack Transaction Processing

[C++ MFC, ASP, JavaScript, SQL Server, XML]

- COM object which enabled real time online credit card transactions.
 - Integrated into major payment processors such as Vital (VISA), First Data, Global, etc - relayed TCP/IP packets over a frame-relay connection to the processor to get a real-time authorization.
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Aug, 1996 – Aug, 1997

Illinois Institute of Technology – Chicago, Illinois

Research Assistant for Computer Science & Applied Mathematics Dept.

Parallel processing algorithm analysis utilized to construct an execution time prediction simulation model that accurately predicted parallel computing algorithm timings. Utilized the MPI (Message Passing Interface) parallel communication language for the simulations.



Aug, 1995 – Aug, 1996

Illinois Institute of Technology – Chicago, Illinois

Teaching Assistant for Computer Science & Applied Mathematics Dept.

Taught departmental classes, designed curriculum and projects for the Computer Science Department. In part, received the Clinton E. Stryker Distinguished Service Award for excelling as a Teaching Assistant.



May, 1994 – Aug, 1994

NASA Glenn Research Center – Cleveland, Ohio

NASA Internship

Designed and implemented a Thermodynamic data visualization package. Received the highest accolades and rating possible for internship from the professor to whom I was assigned.

EDUCATION



1997

Illinois Institute of Technology – Chicago, Illinois

Master Degree in Computer Science & Applied Mathematics

Graduated with High Honors

1995

Illinois Institute of Technology – Chicago, Illinois

Bachelor of Science in Mechanical & Aerospace Engineering

Graduated with Honors