

# Robert E. Kosko

Persistent experienced C#, MS-SQL Database developer

## Objective

To contribute my experience and persistence in building a professional websites or applications wherein I may continuously add value to the organization that enables me to exercise and develop my skills and engineering ability.

## Education

Penn State University  
B.S. Mining Engineering

## Technical Summary

### UI / Presentation Development

- ASP.NET MVC/Web Forms
- JavaScript
- Flash

### Application Development

- C#
- VB.NET
- Java

### Database Development

- T-SQL (SQL Server 2005 - 2014)
- Entity Framework and SQL Server Data Tools
- PL/SQL (Oracle)

## Work Experience

### Senior Application Developer -CET

May 2011 – Present

### Wheeling Jesuit University

315 Washington Ave, Wheeling WV 26003

#### Summary

Senior Application Developer for NSF funded CyGaMEs Selene project. Selene is a Flash based instruction video game for science students. Project includes php middleware, MS-SQL database and supporting websites.

I was responsible for discovering the algorithm for linear and quadratic Learning Trajectories in Instruction video games. Publication - Analysis of Learning Trajectories for Videogames with Multidimensional Goals and Embedded Assessment, Reese, Tabachnick, Kosko (in press British Journal of Educational Technology) <http://onlinelibrary.wiley.com/doi/10.1111/bjet.12128/pdf>

I revised the Flash Selene game to run independent phases to allow Selene to be submitted to the 2012 NSF International Science & Engineering Visualization Challenge. Selene was awarded an Honorary Mention for Games & Applications. See [http://www.nsf.gov/news/special\\_reports/scivis/winners\\_2012.jsp](http://www.nsf.gov/news/special_reports/scivis/winners_2012.jsp)

#### Position-Specific Software Summary

- Visual Studio 2008/2010/2012
- SQL Server Management Studio 2005-2014
- Flash Builder
- Asp.Net, C#, MVC 4

#### Web Development

- Creating four websites with Asp.Net, C# and Dev Express tools.
  - <http://dms.wju.edu/>
  - <http://selene.cet.edu/SeleneReportingSystem/>
  - <http://selenebadge.cet.edu/>
  - [Internal Player Log](#)
- Replaced php middleware with C# MVC4 website.

#### Database Development

- Designing and implementing databases to 3NF (third normal form).
- Creating stored procedures (T-SQL) to perform complex, multi-table queries.
- Working with Entity Framework 5 (primarily the "database-first" flavor) to read/write to existing databases.

#### Other

- Maintain existing and update Flash application (<http://selene.cet.edu>)
- Maintain existing php middleware. Eventually replace with MVC C# website.

## Senior Application Developer - NTTC

July 2007 – April 2011

Wheeling Jesuit University

315 Washington Ave, Wheeling WV 26003

### Summary

Responsible for maintain existing VB.Net KITS website search application built around ISYS search engine. Import data sources from NASA SBIR/STTR, DOD, DOE, NTRS, WIPO and USPTO. Eventually replaced existing KITS website with Asp.Net, C# website. Enhancements included replacing html table grid with Dev Express grids for sorting and filtering.

### Position-Specific Software Summary

- Visual Studio 2008
- Oracle SQL Database
- Asp.Net, C#

### Web Development

- Rebuild existing KITS website search application with Asp.Net C#

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## Application Developer

May 2007 – July 2007

Leeds

New Kensington, PA, US 15068

### Summary

The Application Developer was responsible for building views and queries for corporate sales, customer services and warehouse applications.

### Position-Specific Software Summary

- SQL Server Management Studio 2005

### Database Development

- Creating MS-SQL views and queries for application reports.

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## Developer

Jan 2006 – April 2007

EDS/Allegheny Energy

Greensburg, Pa

### Summary

The Developer was part of a three member team responsible for assisting the Energy Account System department on their monthly Energy accounting reports. We used an in house application to retrieve data from PJM.com to calculate and aggregate Allegheny Energy's electrical supply and demand.

### Position-Specific Software Summary

- SQL Server Management Studio 2005
- Visual Studio 2005
- Asp.Net, C#

### Application Development

- Part of a three man team to maintain existing Energy Accounting System.
- Assist in SAP transformation as required.

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## Computer Programmer

2001 – 2005

84 Lumber

Eight Four, Pa

### Summary

The Computer Programmer was responsible for the development and administration of 84 Lumber's Inner Circle on-line customer award website.

### Position-Specific Software Summary

- SQL Server Management Studio
- Visual Studio
- Asp.Net, C#

### Application Development

- Created 84 Lumber's Inner Circle website.
- Designing and implementing Inner Circle databases tables to 3NF (third normal form).

**Summary**

The Database Programmer was responsible for the database creation and maintenance of National Record Mart's Marketing Loyalty Program. I also developed a VB program to parse POS files from 300 stores each night to create the morning sales report.

**Position-Specific Software Summary**

- SQL Server Management Studio 2000
- VB

**Application Development**

- Part of a three man team to maintain existing Energy Accounting System.
- Assist in SAP transformation as required.