Contact

✉ dac@duanevore.com

🏠 302 West State Street, #1
Botkins, OH 45306

📞 937-622-3526 🏠

📰 www.duanevore.com

Proximal Skills

- C/C++
- Embedded/RTOS
- PHP
- SQL
- HTML/CSS
- JavaScript/DOM/jQuery
- Mathematica/Matlab

General Skills

- Team building
- Education
- Physical science
- Mathematics
- Graphic arts & CGI
- Writing

Leadership

- President, SSU Chemistry Club
- Organized high adventure program for Girl Scouts

Other

- Comfortable in foreign cultures
- Some proficiency in German and Italian

Duane Couchot-Vore
SOFTWARE ENGINEER

Summary

- Extensive experience in software engineering, research and development, and an aptitude for connecting the development process with real-world applications. The key to understanding the requirements is understanding the problem.

Education

University of Pittsburgh   *Pittsburgh, PA*
M.S., PHYSICAL CHEMISTRY, 2010-2014
- Focus on spectroscopy and computational chemistry
- Principal architect of software for 2D infrared spectroscopy

Shawnee State University   *Portsmouth, OH*
B.S., CHEMISTRY, 2005-2007
- Summa Cum Laude
- Outstanding Chemistry Graduate, 2007
- Outstanding Tutor award

Experience

M7 Technologies   *Youngstown, OH*
Senior Software Engineer, 2010-2011 CONTRACT
- Developed object-oriented framework for 3D scanning and sensor integration for new manufacturing processes.
- Open-GL-based rendering system for composite graphical information.

Quantapoint, Inc.   *Pittsburgh, PA*
Senior Software Engineer, 2008-2010
- Implemented enhancements in C++/.NET and COM to Prism3D and QuantaCAD plug-ins for various CAD packages, including Autodesk products.
- Spearheaded development of MFC-based Active-X control and QuantaCAD server to access CAD functions remotely through an XML protocol.
- Enhanced rendering engine for more efficient use of OpenGL calls and to avoid entire re-rendering on moves, deletes, and edits, reducing overall rendering time 90% in some packages.

Independent Web/Software Development Contractor
2002-2007
- Implemented web site for Dayton-based maker of memorial video equipment. Also developed a custom DVD-writing DLL in C++ for their proprietary DVD authoring software.
- Created a Javascript image annotation facility for academic research in psychology. The PHP server generated the annotated images and sent them to evaluators as embedded e-mail content.
- Developed system to dynamically generate printable PDF menus from data provided online by customer, eliminating printing and layout costs for local restaurant with each menu change. System implemented in PHP/MySQL.

Reynolds & Reynolds Inc.   *Dayton, OH*
Senior Applications Developer, 1999-2002
- Developed UML structured object model on Rational Rose for payroll processing and Delphi wrapper classes to create a system for both client- and Web-based applications, as a low-risk migration from the former to the latter.
- Developed manual commissions module in ASP and VBScript, along with associated COM layer in Visual Basic and stored procedures on MS SQL Server.
- Modified Delphi components to take advantage of enhanced architectural opportunities available through private Windows messaging.
- Associate of the Month award.