

Adnan Masood

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RESEARCH INTERESTS Machine Learning, Collaborative Filtering, Outlier Analysis in Financial Transactional Data, Web Application Security and Data Mining.

EDUCATION **Nova Southeastern University**, Ft. Lauderdale, FL.
 • M.S., Computer Science

University of Karachi, Pakistan.
 • B.S., Computer Science

PROFESSIONAL EXPERIENCE **Green Dot Corporation**, Mornovia, CA
 • *Senior Software Engineer - Technical Lead* **2004 - Present**
 • Developed Service Oriented Architecture Middle Tier Archit for card holders
 • Lead the architecture, design and development of several B2B and B2C systems utilizing distributed computing potential of XML web services and Microsoft.NET framework.
 • Connected system development to interop and communicate with 3rd party API and transaction systems including TSYS, OFX, Experian, IBM MQ. Design and published web service API specs for financial network communications.
 • Designed and Developed secure, high volume websites and provided support for ethical hacks. Migration from classic ASP to ASP.NET and .NET 2.0. Involved in entire software development lifecycle; analyzed, architected and developed the business intelligence and reporting system based on SSRS for extensive GDC financial data analysis requirements.
 • Served on the architecture committee and lead the design efforts.

UKIM, London, UK
Senior Software Engineer **2002 - 2004**
 • Lead Developer for Building Transaction management and CRM systems. Developed and ported ASP-SQL Server based CRM system to ASP.NET, C# and MS SQL Server for enhanced performance and scalability.
 • Designed and Developed .NET based Transaction Management System to automate the credit card processing; integrated transaction desktop application with world pay payment services gateway.

Hudson Valley Webmasters, Middletown, NY
Senior. Software Engineer **2000 - 2004**
 • Lead Developer and Development Manager for the development of various web portals and delegated projects. Devised and documented solution proposals to potential customers which resulted in many additional sales of our services each year
 • Developed middle tier infrastructure design and implementation architecture for various company websites using Microsoft Technologies.
 • Worked on com middle-ware controls for retrieving data from realtime and historical data sources
 • Worked on a interoperability tools in for a next generation portal.

Open Source Projects

- **YABE** :: An MVC based blogging engine built using REST architectural style practices.
- **Web Service Studio** :: A Web Service Invocation and Testing Tool used for XML Web Services and Service Oriented Architecture Testing
- **WADL** :: Web Application Description Language Proxy generation Utility in C#. Used to generate REST based contract proxies as a substitute for SOAP WSDL.

TECHNICAL SKILLS Extensive software experience with a focus on high volume web services, web applications and service oriented architectures

Programming: C, C++, C#, Prolog, Scheme, SQL, some Python, and some F#

Applications: $\text{T}_{\text{E}}\text{X}$, $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$, $\text{BIB}\text{T}_{\text{E}}\text{X}$, Microsoft Office, and other common productivity packages for Windows, OS X, and Linux platforms, WEKA and the statistical program R

Operating Systems: Microsoft Windows XP/2003, Linux

MATHEMATICAL EXPERTISE Probability, Random Variables, and Statistical Models

Data Mining Algorithms (SVD, Information Theory, and Bayesian Networks

Stochastic Search, and Heuristic Search