

Frank A. Adrian

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Innovative technical leader and software engineering professional with proven performance in improving software teams, products, and processes in a variety of industries and settings.

Skills

Programming languages: C, C++, C#, Java, Python, Perl, VB/VBA, Assembler, Other

Web technologies: XML and related technologies, HTML5, CSS3, Javascript and various toolkits (jQuery, Angular, Bootstrap, Knockout), ASP, JSP

Databases: Oracle, SQL Server, DB2, Access, MySQL, Postgres

OS: Windows+.Net, Linux/Unix, IBM System I series, IBM System z series

Work History

Blackbird Solutions, Beaverton, OR (2013-)

Healthcare informatics development work

- Translation of clinical care plans into machine interpretable form for use in clinical compliance, delivery, and QoS applications for Motive Medical Intelligence, including automation of a portion of this task.
- Integration of vocabulary-based problem search into GE Centricity system using new HTML form capability, integrating search facilities from two search vendors (Health Language and Intelligent Medical Objects).
- Worked with QCorp to specify work for implementing and operating statewide maternity quality of care database.
- Worked with STC on a simplified web component to allow their multi-state immunization registry to be interfaced more easily to current EMR systems.
- Several projects related to data cleanup done in Clojure.
- Work on Blackbird's web front end to GE Centricity EMR – work done on MEAN (mongo, express, Angular, node.js) stack.
- Work on several custom HL7 interfaces programmed in Javascript using Qvera interace engine.

McAfee, Beaverton, OR (2008-2013)

Managed development of four products – MNAC (McAfee Network Access Control), VSE 8.8, MOVE (McAfee Optimized for Virtual Environments), and UI for next-generation Endpoint Security Suite.

- While working as a manager, provided architectural guidance and oversight for projects that did not have architects associated with them (MOVE, UI project) and provided overarching system vision for next-generation Endpoint Security Suite, based on insights gained while managing MNAC project.
- Guided UI team towards use of modern, browser-based technologies (Chromium Embedded Framework, Javascript, HTML5, CSS3, YUI toolkit).
- Worked with teams to integrate continual integration technology and improve unit tests.
- Introduced use of Scrum in business unit.

uXcomm/Virtugo, Beaverton, OR (2005-2008)

Oversaw development, QA, Professional Services, and Customer Support personnel (fifteen US-based, six contract personnel in China) in a fast-paced startup environment.

- While working as Director of Development, coded portions of uXcomm's blade server management app using JSP coupled with a proprietary XML-based scripting language, as well as portions of Virtugo's management UI, written as a C# application.

Corillian (now fiserv), Hillsboro, OR (2004-2005)

While manager of the Applications Development group, worked with product management to develop prototype applications using HTML, Javascript, and C# within the ASP framework.

Symantec, Beaverton, OR (1999-2003)

Managed development of Symantec Antivirus for Lotus Domino and Symantec Enterprise Licensing System.

- Produced application and installer code (in RPG and C++) for OS/400 portion of the Domino product.
- Acted as architect for the Enterprise Licensing System, providing technical oversight and selecting base licensing technology.

Stockamp and Associates (now Huron Consulting), Lake Oswego, OR (1999)

Architected and developed second-generation replacement for hospital-billing optimization application that the consulting practice was based on.

- By moving from an Access- and VBA-based application to a new application written in VB6 and using SQL Server, we removed size limitations that inhibited consultants' abilities to engage with larger organizations.
- As development lead, instigated use of many XP practices (unit testing, continual integration, war room) during development, leading to higher product quality.

Hearst Corporation (First DataBank division), Tigard, OR (1995-1999)

Chief Architect and Development Lead for this organization, producing code used in many products.

- Designed or reviewed specifications for all software products, recommending uses of common infrastructure and off-the-shelf components, lowering development costs.
- Designed common structure for all API products, resulting in better interoperability of this product class.
- Developed API products in C++ that sustained data sales, staunching customer loss, ultimately resulting in buyout of #1 competitor.
- Using C++ API's and VB, developed content capture tools, coding schemes, and database schemas in conjunction with team of clinical pharmacologists and physicians for international drug product data, allowing company to expand into foreign markets.
- Using API's and VB, generated static HTML pages for web-based kiosk to deliver drug data to pharmacy customers.
- Developed database schemas and C++ import tool to capture SGML data and export as HTML to generate web-compatible medical documents.
- Drove the company's membership in HL7, steering industry standards that aligned with corporate strategy, raising our visibility in the health care community.

More Previous Employers

ParcPlace Systems, Portland, OR; **Wyatt Software (now part of Watson-Wyatt)**, Lake Oswego, OR; **Mentor Graphics**, Beaverton, OR; **Cericor (purchased by HP)**, Salt Lake City, UT; **Tektronix**, Beaverton, OR.

Other

CLUnit -A Unit Testing Tool for Common Lisp

My open source project can be found at <http://www.frankadrian.com/clunit>.

Micro-eXtreme Programming(μ XP): Embedding XP within Standard Projects

Paper presented at and published in proceedings of XP2001: Second International Conference on eXtreme Programming and Agile Processes in Software Engineering.

Portland State University, Department of Electrical Engineering

Adjunct instructor for introductory Computer Architecture course.

Education

BS Computer Engineering, University of Illinois, Urbana-Champaign.

Work towards MS Electrical Engineering, University of Illinois, Urbana-Champaign.

MS Computer Science, Oregon Health & Sciences University.