

# Barry Hudson

Trinity, FL

-Email me on Indeed: <http://www.indeed.com/r/Barry-Hudson/156dd112f6a6fcfc>

## Professional Summary

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My objective is to understand how technology can be applied efficiently toward today's tactical and strategic business challenges using hands on managerial, software / enterprise architectural, and engineering leadership skills.

## Work Experience

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### **MANAGING ENTERPRISE ARCHITECTURE**

PSCU-Saint Petersburg, FL

May 2022 to Present

Manage the enterprise architecture function, including coordination of an appropriately balanced pursuit of enterprise business, information, technical, and solution architectures.

Develop and implement IT architectural documents such as domain roadmaps, standards, system inventories, data flow diagrams, capability matrixes, and reference architecture documents for Enterprise Applications.

Help determine and implement buy versus build strategies.

Work with system owners to assess current applications/systems. Recommend how to best use/maximize applications/systems in alignment with organizational objectives.

Creates architecture models to reflect the organization's strategies and goals (business outcome driven enterprise architecture).

Analyze technology, industry, and market trends and determine potential impact to enterprise.

Manage application lifecycle, including processes for adding and retiring systems, and processes for adding applications and systems.

Oversees enterprise architecture implementation and ongoing refinement activities.

Responsible for the development and execution of a communication plan for enterprise architecture standards.

Evaluate internal functions and IT processes and suggest improvements.

Make management aware of organizational trends, issues, and feedback.

Suggest ideas to reduce costs and/or system duplication.

### **Sr ENTERPRISE ARCHITECT(Enterprise)**

PSCU-Saint Petersburg, FL

May 2016 to May 2022

Establish TOGAF implementation processes for IT; establish SDLC process and gates to review BRD, FDD, ABB, SBB, and TDD artifacts. Introduce Sparx EA Tool for TRM / Cataloging and Designing using ArchiMate 3, with cross department usage.

Work with solution and application architects, product owners, finance, and vendors to

assist in delivery of solutions; providing hands-on technical guidance to teammates using reference implementation, design patterns, and best practice guidelines; ex. playbooks and run books.

Work with senior business and technology leaders to build out road map projects; full life cycle – business / technical solution, SAW, business plan, and funding / budgeting; ROI analysis.

Create and manage architectural blueprints that cover strategy, business outcomes, capabilities, services, processes, information, and data that lead toward tactical and strategic goals; covering business ideation, discovery, program / project execution, and identifying gaps and opportunities for business and technology solutions.

Champion application, system, security architectures through various governance gates, and collaborate to drive re-usability, continuous improvements; increase speed to market and speed of innovation.

Conduct POCs/MVPs for innovation and R&D teams; technical feasibility analysis to enter new markets; ex. IOT / Alexa.

## **ENTERPRISE ARCHITECT (Solution)**

PSCU-Saint Petersburg, FL

May 2013 to May 2016

Own the recruitment, team formation, technical vision and architecture for a high available integration API / Microservice platform focused on credit card and eCommerce processing for all Domestic Credit Unions.

Hired, trained and managed a blended team of 10 employees on and off-shore performing various senior tasks around development, performance, and quality assurance; tailored toward API transactional platform; \$4.5 million dollar distributed integration solution.

Designed platform to support over 1+ Million Transactions per month, based on migrating off an IBM SOA Platform: Data Power, IIB/ACE, and APIC over to Microservice REST API Spring Boot / Tomcat, and JPA. Platform integrates with 20 different back-end systems using APIs, MQ, TCP/IP, and XML; leveraging off RedHat OpenShift Kubernetes, Docker, AWS: IaaS lift & shift.

## **PRINCIPAL ARCHITECT (API / Application)**

TUI Travel / TUI Marine / Moorings-Clearwater, FL

October 2012 to May 2013

Own the recruitment, team formation, technical vision and architecture for a high available integration SOA platform for several yacht chartering reservation systems. Developed working POC and related artifacts needed to package project overseas to be outsourced, as well as define project plan for 3rd party to execute, management, and govern.

Hired, trained and managed a blended off shore teams – vendors; management around a \$2 million dollar integration project for travel, boating, and booking industry.

Development of SOA platform is with MULE ESB 3, Active MQ, JAX-RS, REST, Jersey, Jettison, JSON, Jackson, Java 6, Maven, Git HUB, XML, XSD, MONGODB, NOSQL, SPRING, and Nexus, as well as designed around command, dispatch, and DI patterns with Design by Contract interfaces enforced with JSON Schemes. Testing harness developed around a business flow mobile app for android using Android / Java.

## **PRINCIPAL ARCHITECT (Application / System)**

Manning and Napier Information Services-Tampa, FL

June 2007 to March 2012

Own the recruitment, team formation, technical vision, architecture, and development for a high available federated CLOUD based health and wellness (Benefit Management – EDI) multi-tier/tenant SOA SAAS platform. Project consists of extending and maintaining current presentation layer using Struts and Spring MVC upgrade to support synchronizes and asynchronous usage cases using JMS when needed.

Hired, trained and managed a blended team of 10 senior architects locally, as well as 10 senior IT consultants remote - managed \$3.5 million dollar flag ship health benefit integration API platform for web and mobile consumers.

System is designed and developed with top down and bottom up strategies for high-level coarse-grained and low-level fine-grained REST and SOAP / WSDL / AXIS based web services, as well as JMS, multi-threading server workflow, and JMX.

Low-level services implemented interoperability between legacy Java EJB, C# Dot Net, JBOSS ESB / ESB Actions, and DI Spring Beans. High-level services implemented orchestration with JBOSS JBPL.

Designed and developed services for SOA platform using XML, DOM, SAX, XSL/T, UML, JAVA, Spring, J2EE, EJB, WSDL, AXIS, JAXWS, JAXB, JAXP, JAX-RPC, CASTOR, JBPM, ESB, MSSQL, JUNIT, XSD and iBatis / MyBatis / Hibernate. OR Mapping layer connected to Active / Active HA MS SQL Server database. The coding involved implementing the following design patterns in the platform's middle tier: Command, Factory, Business Delegate, Session Façade, Singleton, Mediator, Visitor, and Value Objects.

Design and developed multi-device inter-operable platform harness using: Spring MVC, JQuery, HTML5, and CSS3. Testing harness developed around a business flow mobile app for iphone / ipad using IOS / Objective - C.

Design and developed High Available (HA) CLOUD based System production architecture for SOA platform using: VMWare (private CLOUD), SAAS, five IBM Blade Servers, two IBM Brocade Switches, Two Cisco ACE 4710, Two Cisco ASA 5500 Firewalls, IBM DS3000 fiber SAN, and ESX hosts with various virtual servers, as well as two MSSQL 2008 database servers configured with log shipping.

## **SOA ARCHITECT (API / Application)**

Nielsen-Oldsmar, FL

June 2005 to June 2007

Own the technical vision, architecture, and development for building web services for a High Availability Enterprise Customer Profile Repository system.

System is designed and developed with top down and bottom up strategies for high-level coarse-grained and low-level fine-grained web services.

Low-level services are interoperable extensions of various Enterprise Java Beans (Stateless), and high-level services are designed for BPEL Engine. Both services targeted for deployment on an Enterprise Service Bus (ESB).

Designed and developed services for SOA using UML, JAVA, J2EE, EJB, SOA, UDDI, WSDL, AXIS, JWSDP, JAXB, JAXP, JAX-RPC, AMBER POINT, CASTOR, BPEL, ESB, SYBASE, and XSD.

Designed and developed a middle tier layer - generic - web services framework using object pools, threads, factories, mediators and nested command patterns in a J2EE implementation within Weblogic's application server.

## **J2EE ARCHITECT (Application)**

Syniverse-Tampa, FL

December 2004 to June 2005

Co-own the technical vision, architect and development effort in building a J2EE distributed enterprise system for High Availability AMBER Alerts wireless web-centric application.

Designed and developed presentation layer using JAVA, JSP, XMLBeans, XSL, Xerces, Xalan, Model 2X, Struts, Log4j, ANT, UML, and Sun One's application server.

Designed and developed middle tier layer within team of 2 and principal architect to meet business requirements using JAVA, XMLBeans for value objects, EJB stateless session facades, UML, DAO design patterns, Oracle 9i, SQL, and Sun One's application server.

Designed and developed wireless short code text messaging components to meet requirements using Java, UML, Logitech's API for SMPP to support cell phones: AT&T, Nextel, Alltel, and Sprint.

## **J2EE CONSULTANT**

SAIC-Orlando, FL

August 2004 to November 2004

Design and develop E-Commerce business components, shopping cart, and point of sale modules for Florida's Department Of Law Enforcement's criminal history application using Java, J2EE, Compeire ERP/ CRM API, EJB, JDBC, JSP, Struts, JDeveloper, SQL, Oracle, and Oracle's 10g application server.

### **J2EE CONSULTANT**

TIAA-CREF-Charlotte, NC  
March 2004 to July 2004

Develop new enhancements to a server side multi-threaded process to run 24/7 and connect to a web service using WSDL, UDDI, SOAP and JAVA with Axis. The multi-threaded process runs outside of weblogic.

### **J2EE CONSULTANT**

BANK OF AMERICA - Private Banking-Charlotte, NC  
December 2003 to March 2004

Design business and web components for J2EE infrastructure to meet requirements for a Compensation Enterprise Application.

Designed / developed J2EE JAVA Classes / Servlets / EJB business components for n-tier Enterprise Application. This is accomplished through the use of business use cases, UML class / sequence diagrams, Struts MVC2 Framework, JSP, JDBC, ANT, JUnit, WebLogic, Eclipse, Souce Safe, and the following design patterns: Singleton, DataAccessObjects, Abstract Factories, Factories, ValueObjects, Location Service, and a Business Delegate Service.

### **BUDGET AND CONTROL BOARD - CIO**

STATE OF SOUTH CAROLINA-Columbia, SC  
July 2002 to November 2003

#### **J2EE CONSULTANT**

Create standard methodology infrastructure for J2EE development, as well as design RM-ODP and J2EE architecture for South Carolina Election Commission's Voter Registration System (VRS). VRS is the next generation distributed Voter Registration System designed for voter, absentee, poll worker, candidate, and election business services. Each Business service supports add, modify, history, audit, and report functionality. This system is designed to replace the current IBM mainframe system that handles voter registration and associated data used at the state level.

All projects below are designed / developed using J2EE architecture patterns, component design patterns, Struts, CVS, IBM's Web Sphere (v3.5 / v4 / v5), and IBM's Application Developer (v5).

Project - Voter Registration System:

- Designed / developed J2EE JAVA Classes / Servlets / EJB business components for n-tier Enterprise Application. This is accomplished through the use of business use cases, UML class / sequence diagrams, Struts MVC2 Framework, JSP, JDBC, ANT, JUnit, WebSphere, IBM's Application Developer, DB2, CVS, and the following design patterns: Singleton, DataAccessObjects, ValueObjects, Location Service, and a Business Delegate Service.

Project - Create Standard Methodology:

- Assessed Business Requirements to write up the following High level to low level architectural design documents using the Reference Model for Open Distributed Processing (RM-ODP) and J2EE's N-Tier Architecture Model.
- Documents cover Overall Architecture, Business Architecture, Software Architecture, Hardware Architecture, and Deployment/Performance/Testing Architecture.
- The Software Architecture breaks down into the Web Tier Architecture, Business Tier Architecture, and the Database Tier Architecture.
- The Business Tier Architecture breaks down into several Business Services Design Documents reflecting component relationships and centered on a "design by contract" model using Interfaces.

### **C++ / J2EE CONSULTANT**

OMGEO / A DTCC and THOMPSON FINANCIAL COMPANY-Boston, MA  
September 2000 to May 2002

Design and develop tools that support Omgeo's Central Trade Management Program (CTM). CTM is a distributed international trade management solution used by executors and orders of securities. Its main focus is to speed the global securities industry's processing of transactions from T+3 days to T+1 (via STP - Straight Through Processing).

All projects below are designed / developed with unix makefiles, shell scripts, center around design patterns and traditional software development methodologies and extreme programming, as well as maintained code in ClearCase for version control.

#### Project - Minidome Website:

- Reverse engineered JAVA Classes / Servlets / Corba (WEBLOGIC ENTERPRISE) components to design and develop an n-tier intranet website that drills down into user usages to see CTM's architecture from a department's perspective. This is accomplished through the use of business use cases, UML class / sequence diagrams w/ Rational Rose, JAVA doc, develop Use Cases, and database SQL packages / schemas w/ Erwin.
- Designed / developed a web crawler / spider using JAVA to run and generate a daily report on broken links related to Minidome website and email report to associated parties, because Minidome is maintained between multiple departments via ftp clients.
- Designed / developed an XML / DOM based search engine related to the context of each usage page on Minidome website using an HTML form and JAVA Servlets, JSP, XSL/XSLT and a visitor pattern.

#### Project - Test Harnesses Analyzer:

- Designed and developed an abstract framework with plug and play features using JAVA Reflection, XML, DOM, SAX, XSL/XSLT, and code generated JAVA classes reflecting data from Oracle 8i.
- The test harnesses framework consists of different test harnesses using a library of functionality to log asynchronous milestone related statistics such as Milestones, Subtests, Unit Tests, Assertions, and uses a reporting Framework. This reporting framework consists of an abstract Analyzer JAVA class, abstract Tree Structure JAVA class, and an abstract Publisher JAVA class used to process the log file and create reports.
- This design uses a MVC design pattern. The model portion of MVC is a DOM tree structure reflecting the log content, with the view portion of MVC being XSL/XSLT files used to construct the following three reports: a text email, an HTML static page, and an HTML Interactive page with Java Script and DHTML. The controller portion of MVC is an abstract JAVA business component used to handle core execution.

#### Project - White Box Test Harness:

- Designed and developed an abstract framework with plug and play features using JAVA Reflection, Corba (WEBLOGIC ENTERPRISE), SAX, XML and code generated JAVA classes reflecting data from Oracle 8i.
- This program is designed around Corba (WEBLOGIC ENTERPRISE) components and an XML SAX parser to construct setup and tear down execution of submitting trades into CTM and testing expected outcome. This design centers on a visitor pattern.

#### Project - Persistence Test Harness:

- Design and develop an abstract framework with plug and play features using JAVA Reflection, XML, SAX and SQL.
- This program uses an XML SAX parser and code generated JAVA classes to construct a setup and tear down testing execution of sending trades into CTM, and validating that the stored procedures did as expected, as well as producing JAVA exceptions when expecting them to be thrown. This design centers on a visitor pattern.

### **SR C++ / J2EE SOFTWARE ENGINEER**

POLITZER AND HANEY / MERRILL LYNCH-Newton, MA

December 1999 to September 2000

All projects below center around design patterns and traditional software development methodologies.

Project- Manage Merrill Lynch's B2B N-Tier Web Cash Management System using JAVA / J2EE / EJB / XSL / XSLT / Websphere.

Project - Develop C/C++ ATL COM Modules for Web Cash Management System.

## **C++ / JAVA SOFTWARE ENGINEER**

CENDANT INTERNET ENGINEERING-Cambridge, MA

December 1997 to December 1999

Project - Develop real-time distributed log parsing engine using C++ / JAVA / CORBA

Project - Develop C/C++ system reports using C/C++ and MAPQUEST API

Project - Install Real Video Server and stream video over RTSP. Designed and developed server with Java and C/C++, as well as compress video for real media streaming.

## **C++ / JAVA SOFTWARE ENGINEER**

INTERNET BUSINESS SYSTEMS (IBS) / CAMBRIDGE TECHNOLOGY GROUP (CTG)-Cambridge, MA

1997 to 1997

Project - Develop E-Commerce-shopping cart using JAVA, Servlets, JDBC, and CORBA

## **C++ SOFTWARE ENGINEER**

STATE STREET-Quincy, MA

1996 to 1997

## **C++ SOFTWARE ENGINEER**

HAMPSHIRE SOFTWARE-Whitman, MA

1995 to 1996

## Education

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### **MASTER of Science in Entrepreneurship**

UNIVERSITY OF SOUTH FLORIDA - Tampa, FL

2011

### **Certificate in Computer Science**

BRIDGEWATER STATE COLLEGE - Bridgewater, MA

1996

### **BACHELOR of Science in Film / Screen**

UNIVERSITY OF MIAMI - Miami, FL

1994

### **DUCKTORATE in Cell Animation**

DISNEY UNIVERSITY - Orlando, FL

1992

## Skills

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- AWS
- Java
- SQL
- REST
- JavaScript

- Angular
- DevOps

## Certifications and Licenses

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### **Mule Soft - Mule ESB 3.0 Certificate**

2012 to Present

## Additional Information

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### SOFTWARE / HIGHLIGHTS:

- Over 18 years developing software designing various architecture models (MEAN, API, J2EE, API/SOA, and FEDERATION)
- ANGULARJS - JAVA SCRIPT - NODEJS - EXPRESS - SENCHA TOUCH - JAVA - J2EE - EJB - CORBA - JMS - AOP - OOD - OOA - MULE - APACHE CXF - JERSEY - JETTISON - JACKSON - MONGODB - NOSQL - SOLR - DATA POWER - IIB - WMB - WSRR
- IOS - Mobile (Objective C / C / C++, Java / Android) - STTP - RTMP
- ESB - JAXWS - JAXRS - WSDL - SOAP - RESTFUL - AXIS/2 - JBPL - BPEL - WEB SERVICES - SAAS - CLOUD - FEDERATION - VMWARE - MS HYPERV
- STRUTS/2 - SPRING / MVC - JSP - JSTL - HTML5 - CSS3 - JQUERY - JAVA SCRIPT - DHTML - AJAX - DI
- JDBC - I/MY BATIS - HIBERNATE - ORACLE - MYSQL - SQL SERVER - SQL
- JSON - XML - DOM - SAX - JAXB - JAXP - XSD - XSL/T - CASTOR - XML BEANS
- JUNIT - ANT - CRUSE CONTROL - SVN / CVS - SOURCE SAFE - ECLIPSE
- WEBSPHERE - WEBLOGIC - JBOSS - JBOSS ESB - TOMCAT - APACHE - IIS
- UML - RATIONAL ROSE - TOGETHER J - DESIGN PATTERNS - TOGAF - JPROBE - ITIL
- High Availability - Software Lifecycle - SCRUM - AGILE - KANBAN
- TCP/IP - HTTP - HTTPS - SSL - PRIVATE / PUBLIC KEYS - UNIX - WINDOWS

### ARCHITECTURAL LEADERSHIP / HIGHLIGHTS:

- Over 8 years building and leading architectural and engineering software teams
- Conduct the following:
  - architectural reviews
  - direct engineering efforts
  - code reviews
  - performance analysis
  - high availability analysis
  - systems architectural reviews
  - architectural presentations to non-technical leadership

### INDUSTRY EXPERIENCE:

- Finance (Trade Management - STP, Banking, Compensation, Credit / Debit Card)
- Health Care (Benefit Management - EDI 834 Enrollment)
- State (Government)
- Internet (E-Commerce, Retail)

- Other (ERP, CRM)