**Carl Boudreau**

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**OBJECTIVE**

Seeking a position as a Sr. Principle Engineer, to effect change with innovative designs and strategic forward thinking theory and practice reducing complexity of health care software while reducing the cost of health care. I am seeking an opportunity to reach a broader audience by providing and demonstrating new technology solutions that expand our opportunities to lower healthcare costs while fulfilling my passion to improve processes and performance.

**SKILL SUMMARY**

* Experienced and confident to generate Software Solutions “from Napkin to Production” while meeting or exceeding customer expectations.
* Fluent in Microsoft Stack Development and Delivery.
* Fluent in hardware racking and configuring, now morphed into virtualized cloud environments.
* Confident in designing SOA for SaaS solutions using latest technologies.
* Experienced Leader, Mentor, and Guide to Business and Developers for new technologies.
* 18+ years of development experience in C#, Java, C, VB, PHP, xCode,
* 18+ years of database experience in with Sql Server, DB2, Oracle, MySql to include installation, configuration, modeling and design of tables Stored Procedures and triggers along with backup and data recovery.
* Experienced and confident meeting with Customers to gather requirements and help lead them to identify and expose gaps in the requirements to understand what difficult technical challenges lies ahead and options to overcome those obstacles.
* Experienced **Educator** in a structured classroom environment while teaching programming at local colleges and private concerns.
* Experienced managing several development teams on and off-shore to overcome time differences, social and communication barriers
* Known as the “Go to Guy” for configuring VM & cloud resources, designing software, and implementing cyber security measures to keep my customer and their data safe.

**EXPERIENCE**

Oct 2013 - Present **Optum**

Software Architect, Sr. Developer.

Design & Coding a **Natural Language** application in the form of a **Web Assembly** that can be used Enterprise wide to capture conversations to text and then apply **Natural Language Processing** to provide meaningful clean data to be data mined with future **Machine Learning** applications.

Architecting a DME **Block chain** to improve the process to increase transparency of providing a DME to our members as quickly and proficiently as possible

Designing and building a **Machine Learning** application to automate and track Prior Authorizations at an enterprise level to be the Source of Truth, while providing **Machine Learning** to provide the best answer and audit tracking. This application will save 40 million in claim disputes, payments & FTE’s because it is difficult to determine if a Prior Authorization was required or not consistently.

Working on **Patents** for Optum for the software applications I have designed and developed, to help Optum reach its goals to increase the number of registered patents for Optum.

I guide, mentor and lead efforts to position projects into a DevOps model to take advantage of AGILE, Continuous Integration, Security Code Scanning and Penetration best practices. I guide SCRUM Teams into the DevOps Model by architecting solutions that put the Business in charge of functionality when Business wants to provide new functionality.

I have designed and written an automated letter generating application that saved UHG 14 million dollars in FTE costs.

I’ve designed MCD-Online a SOA solution with API and Web Sites to put UHG into a better position to compete for M&V contracts. Helped write RFP’s to capture new business from the VA based of my solution designs to meet their needs. This effort included **Azure Cloud Solutions**, and **Cyber Security** including **NIST** and **FISMA** concerns that included Code Scanning and Penetration testing in a Continuous Integration SDLC. This effort saves the company 8,000.00 dollars a year in hosting costs.

I provided leadership direction to transform a project and team that had failed to demonstrate any demonstrable progress to Business Owners in the first 6 sprints which is now in Production with **Zero Defects** within 10 Sprints. To accomplish this I provide options & input to the PMC on solutions and feature sizes. I provided guidance to Product Owners & Scrum Teams to write better Features and User Stories from a technologist’s perspective. With input at all levels with in an Agile Team I was able to add value by transitioning a failing project into a successful project.

Mar 2013 - Oct 2013 **Spatial Solutions Group (GIS / Oil regulatory industry)** (WFH Nights)

Sr. Developer – Contracted to provide architecture, coding guidance and mentor the team who was building a federal compliance gathering and reporting tools for major oil drilling companies.

Mar 2013 - Nov 2013 **US BANK** **(Banking industry)**

Architect, Sr. Developer – Gather requirements, designed and delivered a software solution that managed the banks hardware and software warrantees and license information for computer systems in 4100 corporate offices and branches.

Mar 2011 - Mar 2013 **LPS (Banking industry)**

Lead Developer, Architect - Lead a team of 4, to maintain and extend a large object orientated design win forms application that moves a large set of records from our Customers into their ERP system.

Aug 2010 - Mar 2011 **Evolve-Systems (Web Site Design industry)**

CIO, Architect, Sr. Developer – Manage two team onshore and 3 teams offshore to produce many customer web applications within both LAMP & Microsoft Stacks while working with and managing customer expectations and relationships.

Jun 2012 – Jan 2014 **New American Model (Fashion Modeling industry)**

CIO, PM, Architect - Managed On/Off Shore teams to build a robust Model Portfolio site. Designed API and a mobile hybrid mobile solution so Model Recruiters can scout and sign new talent anywhere they had an internet connection.

Sept 2009 - Aug 2010 **RI Transcription (Medical industry)**

Manager, Architect, Sr. Developer – Managed Network Services, Developers and the Help Desk Departments. Implemented Cyber Security measures in the network room and software designs, implemented SDLC procedures. Introduced HR procedures that defined IT positions, used to measure performance.

Apr 2007 - Sept 2009 **North American Membership Group (Publishing and ecommerce industry)**

Software & NetworkArchitect, Sr. Developer - Designed and coded SOA solutions using Web Services, AWS & Amazons EC2 Cloud Computing, which served Web Applications with 250 to 500 concurrent users over 12 lines of businesses.

Nov 2005 - Apr 2007 **GLS Companies (Publishing and E-Commerce industry)**

Sr. Developer – Provided solutions for customers to design Custom Print Jobs as needed, automated the order and invoicing process then queue the job on high speed digital presses for a leading printer who saw the vanishing opportunities in traditional print.

Sept 2005 - June 2006 **Dakota County Technical College** (Nights)

Educator, Mentor – Instructed classes of 20-30 students in C#. Formed lasting relationships as a Career Mentor with students working within major twin cities IT positons after graduations.

May 2004 - Nov 2005 **Green Tree (Financial industry)**

Educator, Sr. Developer, Software Architect, - Started as a trainer to bring the current development team up to the latest .Net technologies. Later, I designed and coded an application that interfaced a USB Check Scanning device which initiated the Check 21.

Nov 2003 - May 2004 **Tech Logic** (Independent Contractor)

Sr. Developer, Jr Software Architect, Educator, Mentor – Entered the world of embedded software applications interfacing with robotics, serial/USB peripheral hardware. This was 1st opportunity to practice Architecture by successfully designing a distributed robotics control and reporting solution.

Sept 2000 - June 2002 **Hennepin Technical College** (Nights)

Educator, Mentor - Instructed classes of 20-30 students in C#. Formed lasting relationships as a Career Mentor with students working within major twin cities IT positons after graduations.

Jul 2000 - Nov 2003 **Notiva (HM & Associates)**

Developer, Student – On the job training (OJT) spanning many contracts at large corporations learned what worked & what doesn’t. OJT by several SME’s in Cyber Security, Distributed Software Design, Data Storage, Data Recovery and Network Design.

Jan 1978 - Jul 2000 **U.S. Coast Guard (Engineering / Law Enforcement)**

Leader, Educator, Mentor, Law Enforcement Officer - Written first successful software program for Training and Law Enforcement needs.

**LIFE OUT SIDE OF WORK**

* Father of 4 - My oldest son is on his 3rd tour within the Army, my second son studying to be a Chef, my first daughter is studying to become a Nurse, and my youngest daughter is in a special school for exceptional learners called Gifted & Talented Program.
* Developer – You will often find me online after hours reading and implementing new technologies. I find it interesting what is on the new technologies horizons. As an engineer I have a tendency to understand how things work behind the scenes.
* Vintner - I just purchased 110 acres in 2018, and planted 675 vines this summer. The plan is to plant another 1000 vines year until 17 acers is filled. Wine making has been in the family for generation in New England. I have gathered vine clippings from family members over the years and propagated them for my own Vineyard here in Minnesota. Currently I have 80 gallons in fermenters today.
* Embedded Electronic – I have always been drawn to electronics and robotics. I have designed circuit’s board for stepper motors to create my first CNC Sewing Machine to a CNC Plasma Cutter. As of late I have built a Commercial sized dehydrator with a Raspberry Pi as the controller.
* Gardener – For the past 4 years my wife and I have been growing the hottest peppers known to man. We have about 80 pounds of crushed peppers in dry stores.

**EDUCATION**

Self-Paced/Funded Training in various IT Technologies including Microsoft, Java, and  
 embedded processors.

New Horizons Training (Microsoft & Java)

Hennepin Technical College (C# & Java)

Wilson Technical College

U. S. Coast Guard Engineering School & Law Enforcement Academy