# Dave McLure

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## Summary

20+ years of full stack enterprise web software development experience over Windows, MacOS, Linux and other operating systems for industries ranging from Securities, B2B Ecommerce, Insurance, and Computer/Software Manufacturing.  Developer of Front End web applications, Middleware utilizing REST and event-driven message based APIs, to Back End ORM data storage repositories using industry standard frameworks.  Quick learn with experience using a vast array of different programming languages including Java, Typescript/Javascript, CSS, JSON & HTML5 with standard frameworks including React, Node.js, Spring/Springboot and OAuth2 based Security.  Experience developing Java K8s apps on Spark, integration with Google Workspace and Cloud.

## Experience

### Cyber Seagull LLC
President and CEO
March 2024 - Present
Wareham, MA
Designing & Developing Secured Cloud Applications using AI like nobody's business!  It turns out that vast knowledge, experience and talent combined with the power of AI is an unstoppable combination.

### State Street Corporation
Vice President, Senior Consultant Architect
August 2015 – March 2024 (8 years 7 months)
Quincy, MA
Architected, Designed, Developed and Secured Cloud Application Frameworks to help build the financial industry of the future.  Provided Consulting for Full Stack Java Web Application Development teams exploring state of the art tools and frameworks including Reactive Java Springboot as well as Responsive HTML5 UI frameworks.  Developed Microservices applications written in Java running in Kubernetes Docker containers over Spark cluster technology for POCs including a Machine Learning log monitoring system and authentication/authorization services consisting of an OAuth2-based LDAP security system. Pioneered Robotics Automation by designing and configuring a fault tolerant Blue Prism cluster framework POC and subsequent system implementation. Experienced with mitigation of legacy Java Rich Client software to three tiered full stack and later cloud-based Microservices for security audit compliance. Experience configuring MongoDB cluster using custom Python-scripting.

### Staples Inc.
Principal Software Engineer
April 2010 - July 2015 (5 years 4 months)
Framingham, MA
Full Stack Design and Development of Java EE Web (JAVA/JSP, XML, HTML, JSON, AJAX) WebSphere & DB2 Infrastructure for world class StaplesAdvantage.com B2B website.

- Designed REST API for the Staples Advantage platform. Developed a Spring/MongoDB demo.
- Front and mid tier web development (Java/JSP, HTML, Javascript, JSON & XML).
- Back end infrastructure work in Java, as well as legacy C++ applications utilizing MQ Series.

## S1 Corporation
Senior Software Developer
November 2006 - July 2010 (3 years 9 months)
Littleton, MA
Custom financial web development work for State Farm Insurance using Insurance Application Architecture (IAA) software framework - built on top of EAFS – providing a standard means of processing, and transmitting XML documents to and from enterprise partners.  Development of cutting edge S1 and 3rd party tools running as Eclipse plugins built using the Eclipse Modeling Framework (EMF) for the S1 Enterprise Architecture group.  Resident Java Spring expert providing in house instructional training in Java Spring.  Agile Java web development on the core Self Service Banking product of S1 Corporation.

## New England Patriots
Software Consultant
August 2006 - November 2006 (4 months)
Foxboro, MA
Java Middleware Development work involving Spring, Hibernate, XML Syndication (RSS Feeds technology) and HTML. Developed Java Spring & Hibernate software component for a special multimedia project involving web content acquisition utilizing Classifier-For-J to create a smart web spider later incorporated into MatchMine.com. Key aspects were to improve efficiency and effectiveness of components within the overall system.

## TJX Companies
Senior Programmer Analyst
April 2004 - August 2006 (2 years 5 months)
Natick, MA
Architect and Technical Lead for a Java Struts based J2EE based application framework which was fully equipped with a session level security layer designed to free application developers from security and session handling concerns and allowing them to focus on business logic and web page design.  Designed and delivered a suite of Key Financial Purchase Order Review and associated Administration web applications supporting multiple divisions.

## Fidelity Investments
Lead Web Developer
1998 - 2004 (6 years)
Marlboro, MA
Fidelity Plan Sponsor WebStation (PSW) dev on a Struts based Java J2EE internet application. Fidelity NetBenefits C/C++ based web application development. Patent holder of a customer assistance tool allowing service representatives to simulate customer web sessions and help diagnose customer issues. Redesign and fortification of the original 401k network firewall. Linking of the Fidelity NetBenefits 401k web application with the Fidelity Brokerage web application (via Single Sign On), as well as with the Retirement Planning web application (via Web Services).

## Data General Corporation
Technical Specialist
January 1996 - April 1998 (2 years 4 months)
Westboro, MA
State of the art graphical demo software developer using Java, VRML, Microsoft Visual C++, HTML, SQL, and an assortment of tools and utilities.  Demo Dolly for both in house hardware and software demonstrations as well as Road Warrior traveling to many of the finest locations to host industry Trade

Shows.

## GTE Laboratories
Software Consultant
July 1995 - January 1996 (7 months)
Waltham, MA

TONICS network management C/C++ development of low-level byte protocol based agent, to higher level C++ X-Windows GUI software for management of fiber optic based Synchronous Digital Hierarchy (SDH) video switching system servers.  Development was AIX based for an X Windows GUI platform.

## Stratus Computer
Senior Software Engineer
March 1993 - July 1995 (2 years 5 months)
Marlboro, MA

Developer for the Open Systems Network Management group working on C-based SNMP Agent software for Stratus' Fault Tolerant UNIX (FTX) systems.  Also ported the USL C++ compiler and handled the Interviews object oriented X-Windowing toolkit for Stratus' Sustaining Systems Engineering organization.

## Digital Equipment Corporation
Senior Software Engineer
January 1984 - February 1993 (9 years 2 months)
Littleton, MA  (also Marlboro and Stow MA)

Software Developer of C and X/Motif based DECmcc (Polycenter) Network Management product. Entrepreneurial Software Developer for self-designed real-time network based system monitoring product called "DECPulse" written in Pascal and GKS (Graphical Kernel System) and initially demonstrated at DECWorld '87.  System Programmer for Distributed IVIS Training System software development in Design and Draw on Pro/350 IVIS station for VAX/VMS byte-code emulation.

# Education

Harvard University
Certificate of Applied Sciences, Software Engineering

Northeastern University
Certificate, Computer Software Engineering · (September 1990 - May 1991)

Northeastern University
Certificate of Software Engineering, Data Communications

University of Iowa
BA, Broadcasting & Film (major) / Computer Science (minor)

West High School of Iowa City, Iowa
Class of 1975 (https://icwh1975.org)