

Paul Hoffman | Software Engineer

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SUMMARY

Adept software engineer with 15+ years experience designing and developing enterprise solutions in collaborative, fast paced, high demand environments.

EXPERIENCE

Becton, Dickinson and Company

San Diego, CA

Principal Software Engineer

April 2015 - Present

- Designed and developed high availability, robust, and secure server applications, using C, C++, and C# on Windows Server platforms, to provide communication capabilities and message transformation functionality for regulated medical devices.
- Increased business value of existing deployed medical devices by engineering enterprise solutions to capture data from these devices for inclusion into patient medical records and device maintenance metrics.
- Researched, developed, and documented resolutions for over 1300 cybersecurity vulnerability identified for applications, hosting operating system, web server, and database server in order to obtain an authority to operate within a Department of Defense Medical Treatment Facility.
- Accelerated product adoption and enhanced security posture of ASP.NET web applications by integrating identity provider independent enterprise wide authentication management solution.
- Restructured middleware server application implementation of TCP/IP, in C and C++, to resolve concurrency and threading issues in order to increase interoperability and reliability with 3rd party Electronic Medical Record System vendors.
- Created organization wide IPSEC policy with single click installation and coordinated testing effort between affected disparate business units to ensure continuous connectivity, interoperability, and security of data in transit.
- Authored software architectural design documents, implementation and installation guides, and security white papers to improve product support for developers, testers, DevOps, end users, and customers.

Yellow Magic, Inc.

Murrieta, CA

Senior Software Engineer

November 2001 - March 2015

- Created complex IOS applications in Objective-C and RESTful back-end server-side web applications in ASP.NET to increase productivity in enterprise sale team management and decrease errors in remote contract capture.
- Designed and developed web applications for enterprise reporting and consumer product search using modern front-end JavaScript libraries such as jQuery and AngularJS.
- Increased overall system performance by implementing and exposing software components developed in C and C++ to higher level languages via COM on Windows.
- Re-factored and re-implemented legacy applications and libraries developed in C and C++ for use on modern operating systems and hardware architectures.
- Planned and introduced new and complex software features based on collaborative communication with stake-holders while maintaining stability and backward compatibility with existing enterprise applications.
- Migrated production code and documentation SCM from Visual Source Safe to Git.

SoundVet

Carlsbad, CA

Software Engineering Consultant

March 2006 - June 2006

- Implemented COM interfaces in C++ to provide interoperability access to libraries provided by 3rd party vendors for digital x-ray equipment to integrate into existing .NET applications used by veterinary personnel.
- Advised and worked with software development team to successfully fulfill enterprise requirements for portable X-ray machines.
- Produced precise technical documentation and supporting material for use by internal development team.

RELEVANT SKILLS

- **Programming Languages:** C, C++, C#, JavaScript, Python, Powershell, SQL
- **Platforms:** .NET, Linux, Windows Server 2012/2016, AWS, Azure

EDUCATION

Park University

Computer Science Curriculum - GPA: 3.7

Relevant Activities:

- Coursera Machine Learning Course.
- Coursera Data Scientist's Toolbox Course.
- Coursera R Programming Course.
- Coursera Exploratory Data Analysis Course.

Camp Pendleton Extension, CA

1996 - 2000