

# Paul Hoffman | Software Engineer

44994 Muirfield Dr, Temecula, CA 92592

 [pvhoffman@protonmail.com](mailto:pvhoffman@protonmail.com)

 [github.com/pvhoffman](https://github.com/pvhoffman)

 951-375-6430

## 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

*Staff Software Engineer*

**San Diego, CA**

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.

*Senior Software Engineer*

**Murrieta, CA**

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 .NET 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

*Software Engineering Consultant*

**Carlsbad, CA**

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/Techologies:** .NET, Linux, Windows Server 2012/2016, AWS, Azure, REST, Git, TFS

## EDUCATION

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### 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