

## PERSONAL INFORMATION

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## CAREER OBJECTIVE

To obtain a software development or technical project manager position that maximizes my technical and analytical skills in software development and management.

## EXPERIENCE SUMMARY

More than twenty years of experience developing software and managing software projects for successful commercial digital printing devices and solutions. Proven technical and analytical skills in software development, software engineering and project management. Experience in all phases of software development cycles from the requirement capture and preliminary planning stages through implementation and maintenance. Strength in object-oriented analysis and design methodologies, and design patterns; effective analysis and resolution of complex issues, and monitoring and evaluation of risks.

## EXPERIENCE

11/2018 – Now [Medical Infobutton](#) US-CA-Irvine  
**Independent Software Professional**

- Symptom Checker, Patient Education and Clinical Decision Support

04/2014 – Now [Medicare Informatics](#) US-CA-Irvine

### Independent Software Professional

- Researching on Medicare patients' perceptions of experience of care and plan to develop strategic approaches to improving patient experience.
- CMS Value-Based Reimbursement (VBR) implementation and consultant services - MIPS, HCC RAF, HEDIS, CMS Star Rating, and etc.
- EMR Meaningful Use Stage 3 solution implementation and consultant services - Clinical Decision Support & Patient Education - HL7 InfoButton®, Enhanced Annual Wellness Visits with Preventive Services, Telehealth, CQMs, and etc.)
- Efficient Analytics of Healthcare Informatics Big Data in Cloud.
- Design and Implement Cloud-based Mobile Healthcare Technologies for Medicare related services.
- Provide [SOAP/REST Web Service API](#) for Health Insurance Eligibility Inquiry System - HIPAA Health Care Eligibility Benefit Inquiry/Response (270/271) on Azure Cloud Services.
- Provide [SOAP/REST Web Service API](#) for Health Insurance Billing System - HIPAA Health Care Claim (837) on Azure Cloud Services.
- Provide [SOAP/REST Web Service API](#) for Medical Code Lookup for easy sorting, filtering, and paging functionality in mobile applications.
- Developed Azure Web Applications for [Eligibility Inquiry](#) and [Medicare Informatics](#).
- Developed [Android Applications](#) for Eligibility Inquiry and Medical Code Lookup.
- Focus on [Schema-based Development](#) for automatic data binding and validation, and dynamic content page delivery.

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10/2012 – 03/2014

[Samsung Electronics](#)  
[IT Solutions](#)

South Korea-Suwon

**Senior Manager of Software Engineering and Quality**

- Develop Test Plans and Quality Strategies including the design and development of automated test cases from functional and non-functional requirements. Enhance predictability through requirement testing traceability and coverage metrics and increase test efficiency and effectiveness of testing process through various test metrics.
- Set-up a software engineering and quality team and promote the best software engineering practices. Make a significant investment in improving tools and frameworks for automated testing, and result in a measurable boost in engineer productivity, and constant high-quality results over speedy release cycles.
- Define and implement [Defect Prevention Techniques and Technologies](#) to improve TTM and quality through innovative approaches to testing.
- Assure software reliability through continuous integration. Design automated building and testing framework architecture to accelerate test cycles.
- Lead engineering changes through the system design and architecture committee. Manage change controls and tracking all changes to platform as a chief architect.
- Establish metrics/KPI's and associated benchmarks for software engineering and examine the software quality and growth trends.
- Define and implement an outsourcing strategy to reduce cost without sacrificing quality.
- Instill strong engineering principles in the team and deliver high-quality products on tight schedules.

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03/2011 – 10/2012

[Samsung Electronics](#)  
[IT Solutions](#)

South Korea-Suwon

**Senior Manager of Strategic Business Development**

- Lead printing software development and business strategy planning to get an edge on competitiveness. Achieve business goals on time and on budget by identifying market opportunities, defining product vision and strategy, and prioritizing development initiatives.
- Monitor new technologies and assess their potential to add value to the product. Advise technology selections and adoption roadmap, and architectural strategy and roadmap.
- Lead the open platform strategy development and develop ISV, partner and developer programs. Enable worldwide solutions for business development.
- Develop a new solution marketing and sales promotion strategy plan and increase solution revenue through strategic marketing. Achieve new business development goals and improve retention rates for specific accounts.
- Build partnership with IBM and Accenture to launch MPS go-to-market strategy and channel program in Europe and emerging countries. Increase service capability and support worldwide.

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05/2007 – 10/2012

[Samsung Electronics](#)  
[IT Solutions](#)

South Korea-Suwon

**Senior Manager of Software and Solution Development**

- Responsible for technical leadership and innovation, further developing the company's technical community, and aligning its software strategy, architecture and partner relationships to deliver

customer value.

- Manage more than 50 projects per year and 800 engineers including overseas laboratories for embedded systems, host applications and server solutions software development.
- Architect and design the new intelligent next generation Multi-Function Device Platform built on new technologies such as Android UI and Web Services. Drive focus on modularity and scalability of platform for B2B, seamless integrated with third-party solutions, and easy to use hooks for test automation.
- Architect and design enterprise solutions that integrate the cloud-based remote diagnostics and maintenance system, and mobile applications to provide predictive maintenance and to collect driving behavior data. Microsoft Windows Azure and Android Applications.
- Architect and design the JavaScript-based API and SDK for Multi-Function Device Open Platform which provides a light and portable method of controlling devices and manipulating device resources. Result in relatively more easily integrated into customer environment even without technology background.

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12/2006 – 05/2007

[Xerox](#)

US-CA-EI Segundo

**Project Manager of Enterprise Solution Group**  
***[Integration Framework]***

- Work on the next generation integration framework implementation to provide a generic seamless integration solution between customer (third party) and Xerox FreeFlow (Xerox's framework for workflow automation) applications. Integration Framework is designed to help customers streamline their business and dramatically improve the process of managing jobs, from creation through to final output.
- Manage the software development activities of both internal and offshore resources.
- Interface with stakeholders for requirement analysis and translated business requirements into technology solutions.
- Experience in Agile software development methodology (Scrum, Extreme Programming, Feature Driven Development, Lean Software Development ...).

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03/2006 – 12/2006

[Xerox](#)

US-CA-EI Segundo

**Project Manager of Partner Integration and Development Team**  
***[Partner Integration]***

- Deliver various end-to-end solutions to resolve customer business problems by enabling track every order (print job) from start to end. Develop the fully automated greeting card and photo book production printing solutions to customers.
- Support the Avanti MIS system integration activities through JMF/JDF.
- Develop the Prepress SDK to support third party application integration.

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01/2001 – 03/2006

[Xerox](#)

US-CA-EI Segundo

**Team Leader of Workflow Automation**  
***[Content Management Services]***

- Design and implement Content Management Services to allow FreeFlow applications to be easily integrated with various Document Management Systems (such as DocuShare, SharePoint, Documentum...).
- Design the common document model to manage various Document

Management Systems.

**[Web Services]**

- Design and implement Web storefront for customers to submit new jobs and reorder existing ones over the Internet in a secure environment from virtually anywhere. It allows move jobs into production more quickly, reducing errors and streamlining the fulfillment process.
- Design and implement Job Tracking Module with automatic notifications to operators, as well as status e-mails to customers as their jobs progress.
- Design and implement Job Ticketing and Estimation Module to enable dynamic, real-time price estimation during job set-up and submission.

**[Batch Services]**

- Design and implement asynchronous services to process/schedule time-consuming tasks (such as conversion and printing).

**[Output Management Services]**

- Design for publishing and print-on-demand operations with multiple digital printers from one central location. This service receives jobs from anywhere on your network and send them to the right device. It is designed to meet tight turnaround times by effectively prioritizing, scheduling and splitting jobs. Maximize production capacity by leveraging existing digital print resources.
- Design Inbound Gateway Services such as Hot Folders, LPR, IPP, and JMS/JDF. It allows accepting jobs from anywhere on network (Internet, Mainframe...) and sending jobs to any number of devices using a single unified interface.
- Design and implement the IPP Outbound Gateway Service. It performs IPP job/device operations to monitor job and queue status in the Internet enabled printer device.
- Design and implement Job Attribute Matching feature to examine job attributes and route job to printer with matching characteristics.

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07/1993 – 12/2000

[Xerox](#)

US-CA-EI Segundo

**Principal Engineer of Enterprise Output Management System**

**[Common Client & Server Development]**

- Develop a new enterprise-wised output management services based on the ISO10175 (Document Printing Application) open architecture. It is designed to support multiple platforms in a client-server environment.
- Work as a Next Generation Component-Based Enterprise Output Management System high-level design team (Tiger team) member.
- Coordinate and track the problem report and resolutions among development groups for various projects.
- Design and implement the Web Gateway (Middleware) that handles interaction between multiple Web Clients and the server components. This service processes requests delivered from multiple clients and delivers the requested information to the corresponding client. Extensive experience in C++ object-oriented design and programming, WIN32 API, multi-thread programming, and network programming.
- Design and implement the Java based Web Client that handles interaction with the server components and provides the primary interface for the users. Extensive experience in Java object-oriented design and programming, Java Servlet, multi-thread programming,

synchronization objects and network programming.

- Design and implement the various Java based user friendly help system (context-sensitive help and IIS HTML help file link). Extensive experience in ISAPI, HTML and JavaScript.
- Design and implement the Java and Windows (MFC) based job submission GUI.
- Experience in all phases of software development ranging from requirements capture, estimates, design and implementation to testing.

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07/1987 – 07/1993

Xerox

US-CA-EI Segundo

**System Application SW Design/Development Engineer**

**[Font Solutions]**

- Design and implement the type designer tool (Typefounder) on X-Window to display/manipulate bitmap and outline Interpress fonts.
- Design and implement the outline font manipulation (weight adjust, oblique, and width adjust) application.
- Design and implement the raster (Xerox Bitmap Font) to industry standard outline font (Adobe Type 1 and TrueType) conversion tool.

**[Resource Management Services]**

- Design and implement the client/server-based resource management system (X Font Server, Xerox Printer Resource Management, etc.) on SUN and RS6000.
- Design and implement the Integrated Delivery System (ORACLE on VMS and PC) to automate the printer resource delivery process.
- Design and implement the Client/Server based resource (images, graphics, forms, and fonts) transform tools to convert Xerox resource formats to other vendors' (Adobe, IBM, Microsoft, HP, URW, Bitstream, Monotype, Linotype, etc.) resource formats (printer and screen), and vice versa.
- Design and implement the database client resource (fonts, logos, images, forms, and graphics) manager/transform tool on MS-Windows to display/convert/manipulate bitmap and outline fonts in the remote database servers.
- Design and implement the resource (font and image) encryption/decryption and compression/decompression tools.

**[Images, Graphics, Fonts, and Colors Service]**

- Work with the outside organization (ISO, UNICODE, etc.) for double byte encoding standardization.
- Design and develop newly launched Xerox copier console, Xerox printer internal system (ROM), downloadable and external cartridge font (bitmap and outline) generation tools.
- Design and implement the bitmap and outline barcode font generation tool.
- Design and implement other vendors' font metrics (AFM, PFM, and TFM) file generation tools and width imposition tools to impose/compare the character width information of other font vendors' font metrics information.
- Design and implement the resource (font and image) encryption/decryption and compression/decompression tools.
- Design and implement color logo (images and graphics) conversion/generation tools on X-Window (XCMS) and MS-Windows.

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06/1987 – 06/1992

AFII (Association for  
Font Information  
Interchange)

US-CA-Cerritos

**Contract for Services**

- Build AFII and ISO 10646-2 double byte glyph and mapping tables using MS-Access. Over 64,000 character glyphs are maintained and over 100 mapping tables are linked together. MS-Access forms are provided for user friendly user interface.
- Develop an MS Windows based resource transform/proofing tool to convert outside vendor formats to Adobe BDF files and proof the character glyph shape in Adobe BDF font files.
- Develop a Microsoft Windows based resolution conversion tool and Microsoft BMP generation tool to change character glyph resolution and to add character glyphs in MS-ACCESS table.
- Develop a printer data-stream (Postscript and HP PCL) generation tool for AFII and ISO 10646-2 standard encoding publication. This tool is designed using MFC DAO to get the character glyph from the database and to generate the chart-format output.

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09/1986 – 05/1987                      Univ. of Maryland                      US-MD-College Park

**Video and Image Processing Laboratory Assistance**

- Support research in areas such as the development of new video compression techniques, new streaming technologies, and creating multimedia material for use in video indexing, storage, and retrieval.

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6/1985 – 6/1986                      Univ. of South Carolina                      US-SC-Columbia

**Consultant Programmer**

- Assist students in designing and debugging programs.

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12/1981 – 01/1984                      Daewoo Corporation                      South Korea-Seoul

**Senior Software Engineer**

- Lead sales department document processing (Commercial Invoice and L/C) project.
- Design Sales (ORDER, L/C, and Trade) databases and maintained them.
- Develop real time tools using database (BDMSCOBOL).
- Develop a Korean input/output system on Burroughs.

**EDUCATION**

08/1986                      Univ. of South Carolina                      US-SC-Columbia

**Master's Degree**

Research works in the field of Computer Graphics and Digital Image Processing

Topic of Thesis: Display of Beta-Spline Surface Intersections Using a Scan Line Method

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02/1982                      Sung Kyun Kwan Univ.                      Korea-Seoul

**Bachelor's Degree**

Bachelor of Science in Mathematics and Statistics

**WORK STATUS**

**US Citizen**

I am authorized to work in this country for any employer.