

Brandon Heck

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1562 Woodland Rd.
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Objective

Leverage sound software development practices to produce creative, innovative, forward-thinking software solutions which create value for the business, clients, and other developers.

Technologies & Tools

High Proficiency:

Java SE
Java EE
Web Services Development
Message-Driven Beans
REST (JAX-RS)
JDBC, SQL
Apache Maven
JMX
Jenkins

Working Knowledge:

Java Authentication and
Authorization Service
Java Message Service
Java Native Interface (JNI)
Websphere Application
Server
Apache Tomcat
OAuth Protected Services
XML
HTML
OSGi
Linux Containers (Docker)

Basic Knowledge:

NoSQL
PL/SQL
JCache
OAuth Providers
JPA/Hibernate
C++
C#
Groovy
Eclipse RCP
Ruby
Shell Scripting
Bash
KSH
Batch

Responsibilities

Gathering, creating, and assessing functional requirements
Turning functional requirements into high-level architectural designs and low-level implementation designs
Creating and assessing technical designs for use in high-throughput, highly concurrent systems
Developing optimized, fault-tolerant software based on technical designs
Ensuring that implementation follows the SOLID design principles
Testing (Whitebox testing using Test Driven Development, Black Box Testing, Behavior Driven Development, Integration Testing, Performance Testing)
Developing infrastructure libraries to create a cohesive development, deployment, and software management ecosystem
Integrating tools and libraries with existing infrastructure
Troubleshooting, debugging, and providing support to developers for general Java issues, issues involving open-source libraries, and issues related to libraries maintained by my team

Key Projects

Client, server, and middleware libraries which provide integration with existing tools and ecosystems
Java EE Portlets running on IBM WebSphere Application Server (WAS)
Reusable libraries to perform custom installation logic on WAS including data source setup, inspection and manipulation of environment entries, and setting up Websphere MQ resources
Instrumentation framework (logging, counters, measurements, diagnostic context)
Cache framework with extensible coherency model

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Key Projects (continued)

Object-Relational Model data persistence framework
JDBC framework and utilities, including configuration, instrumentation, and failover
Inversion-of-control framework based on the Service Provider specification
Enhancing, maintaining, and writing reusable and stand-alone business logic

Activities

Kansas City Java User's Group

June 2017-Present

Organizer and host
Organize locations, sponsors, and speakers
Promote meetups to drive membership and attendance
Manage web presence
Communicate to meetup members

Cerner Java Developer's Meetup

September 2014-Present

Organizer, Speaker
Coordinate topics and speakers
Emcee meetups
Speak on a wide range of Java-related topics tailored to how they are applicable to day-to-day development efforts at Cerner

Cerner Learning Facilitator

March 2011-Present

Millennium Architecture July 2014-Present
Cover the history, architectural overview, and concepts related to Cerner's flagship product
Present purpose and usage information about operations tooling for developers
Lead laboratory exercises related to operations tooling and troubleshooting issues

System Infrastructure and Services Development

March 2011-July 2013

Facilitate material presentation and laboratory exercises for other developers on libraries used to solve common issues and standardize the operational model, including:

- Standardized logging APIs
- Caching framework
- JDBC standardization utilities
- Data marshalling libraries
- Messaging middleware
- Service specification APIs
- Service runtime concepts and service containers
- Best practices for services development on proprietary service framework

Development Ecosystem

March 2011-July 2013

Instruct developers on general development concepts and concerns, including:

- Apache Maven
- Software release best practices
- Maintaining software assemblies
- Strategies for API design
- Automated testing best practices

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Professional Experience

Cerner Corporation

May 2008-Present

Senior Software Engineer/Software Architect

September 2013--Present

Conceptualize projects necessary for maintaining technical currency, improving functionality, and delivering new functionality

Ensure technical feasibility of projects by researching, reviewing similar functionality in other applications, and creating proof-of-concept applications

Interact with vendor technical support resources to resolve issues, ensure technical correctness of usage, and add required functionality

Create and review high-level designs with multiple stakeholders and development teams

Use high-level designs to create and review low-level technical designs

Serve as technical lead for a team of 4-6 developers

Review low-level technical designs and code to ensure it meets standards for:

- Technical correctness

- Scalability

- Supportability

- Succinctness

- Appropriateness of APIs

- Extensibility

- Functional completeness

- Testability

Implement software changes

Software Engineer

May 2008-September 2013

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Implement software changes

Education

Master of Science

Applied Computer Science

Northwest Missouri State University

April 2008 GPA: 3.82

Bachelor of Science

Computer Science

Northwest Missouri State University

April 2006 GPA: 3.01

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Continued Learning

Linux Containers and Docker - Pluralsight
Java 9 Modularity - Pluralsight

Resume Updates

Updates to content in this resume can be found on my website,
www.brandonkheck.com/resume.html