

# Brandon Heck

brandon.heck@gmail.com  
816.521.9194

1562 Woodland Rd.  
Greenwood, MO 64034

## 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

brandon.heck@gmail.com  
816.521.9194

1562 Woodland Rd.  
Greenwood, MO 64034

## 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

brandon.heck@gmail.com  
816.521.9194

1562 Woodland Rd.  
Greenwood, MO 64034

## Professional Experience

### Cerner Corporation

May 2008-Present

Senior Software Engineer

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

Senior Software Engineer (continued)

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

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

## 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

# Brandon Heck

(continued)

brandon.heck@gmail.com  
816.521.9194

1562 Woodland Rd.  
Greenwood, MO 64034

## 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](http://www.brandonkheck.com/resume.html)