Brandon Heck

brandon.heck@gmail.com   1562 Woodland Rd.
816.521.9194   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
- Clojure
- Javascript ES6 & Node.js
- 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)

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Key Projects (continued)

- 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
- 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

Professional Experience

PayIt   **November 2018-Present**
Senior Software Engineer
- Create Java REST microservices
- Use clojure to create a finite state automata for driving customer workflows
- Enhance Node.js ES6 service to transform data for display
- Integrate with client data systems
  - Explore existing client data model to find customer information for replacing legacy applications
- Transform and store customer data models in MongoDB

Cerner Corporation   **May 2008-November 2018**
Associate Lead Software Engineer/Software Architect   *May 2008-November 2018*
- Serve as technical lead for a team of 4-6 engineers
- Serve as subject matter expert in tools and frameworks
- Meet with stakeholders from development teams to identify needs and create functional requirements for technical tools and frameworks
- Coordinate effort across multiple development teams and organizations to ensure that projects move smoothly and duplication of effort is reduced
- 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
- Review low-level technical designs and code to ensure it meets standards for:
  - Technical correctness
  - Scalability

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- ○ Supportability
- ○ Succinctness
- ○ Appropriateness of APIs
- ○ Extensibility
- ○ Functional completeness
- ○ Testability
- Implement software changes

Organizer and Speaker, Cerner Java Developer's Meetup   *September 2014-November 2018*

- 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

Learning Facilitator   *March 2011-November 2018*

- *Millennium Architecture*
  - ○ 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*
  - ○ 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*
  - ○ 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

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

Continued Learning

Linux Containers and Docker - Pluralsight
Java 9 Modularity - Pluralsight

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Resume Updates

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