

## **Hantsy Bai**

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**Current location:** Guangzhou , China(GMT+8)

Bai has over 18 years software engineering experience, including 10 years freelancing and consulting experience. He has significant experience in building large-scale distributed systems, design and implementation of RESTful application architecture, migrating monolithic applications to Microservice architecture, pragmatic agile programming coach etc.

He is also a blogger, twitter, and open source contributor. In 2012, he was invited by Redhat to attend 2012 JBoss User and Developer Conference in Boston and received the 2012 JBoss Community Recognition Awards.

## **Community activity:**

1. Contributor of JBoss Arquillian
2. Winner of 2012 JBoss Community Recognition Awards (Category:Wiki)
3. Chinese translator of book: [Spring Live\(the famous Spring book from Matt Raible\)](#)
4. Chinese co-translator of book: [The NG2 BOOK\(the famous Angular 2 book\)](#)
5. Co-reviewer of book: [Arquillian Testing Guide\(Packt publishing\)](#)
6. Co-reviewer of video course: JBoss EAP Configuration, Deployment, and Administration(Packt publishing)
7. Author of [Click4NB\(a NetBeans plugin for Apache Click framework\)](#)

## **Expertise:**

- Hands-on experience of the mainstream software architecture patterns, including REST, CQRS, Event-Driven Architecture(AMQP, Rabbit MQ, Apache ActiveMQ/Artemis, Apache Kafka), Enterprise Integration Pattern(EIP)(Apache Camel, Spring Integration), Microservices/Cloud Native applications, etc.
- Knowledge of SDLC(waterfall and agile/scrum), familiarity with software engineering and project automation.
- Plenty of agile development practice and experienced in growing team
- Lots of experience of modernizing legacy applications
- Passionate, enjoying challenge in new technologies, and always a self-learner and practitioner, great knowledge of resolving complex problems

## Skills:

### Java:

The highlight items are frequently in my daily development(real projects and personal stuff).

- Java 8+(Optional, Stream, Future, etc)-15(Text Block, Record, Pattern Matching, Sealed, etc)
- JUnit 4/5, Mockito, TestContainers, RestAssured, WireMock, JsonPath, HtmlUnit/WebDriver etc.
- Java EE/Jakarta EE specifications(EJB, JPA, CDI, JSF, JAXRS, Arquillian testing with Glassfish/Payara, WildFly/JBossEAP, OpenLiberty, etc.), Microprofile, Quarkus, Helidon, Vertx
- Spring Stack(WebMVC, WebFlux, Session, Data, Security, Integration, AMQP, Batch, etc.), Spring Boot, Spring Cloud, Spring Boot Test.
- Reactive Streams, and Reactive Programming(Rxjava, Reactor)
- Design and implement RESTful APIs archived Richardson Mature Model (Level 2 or Level 3) using Jersey/Resteasy, Spring, Eclipse Vertx, Apache Camel Route etc.
- Other JVM languages, such as Kotlin, basic knowledge of Scala and Groovy.
- Popular application servers/web servers, Apache Tomcat, Eclipse Jetty, Glassfish/Payara, WildFly/JBossEAP, OpenLiberty, etc

### PHP:

I have one year full-time PHP experience and also completed some small freelance PHP projects. But not frequently used it in these years.

- OOP programming in PHP 8
- Doctrine
- Symfony/CakePHP/Zend
- PHPUnit

### NodeJS:

I have done some small standard NodeJS projects. Most of time, I am a fan of Angular.

- NPM/Yarn/Gulp/WebPack/Babel
- Javascript/ES6+

- Typescript
- Angular/RxJS/AngularFirestore
- ExpressJS/Mongoose/NestJS
- Jest/Cypress

## Database:

In development stage, I usually use Docker/K8S to serve all dependencies, including databases, app servers etc.

- RDBMS(H2, MySQL, Postgres, MSSQL, Oracle, etc)
- NoSQL(Mongo, Redis, Neo4j, Cassandra, Couchbase, Elasticsearch etc)
- Upgrade and downgrade RDBMS automatically by Flyway managed SQL scripts that packaged in applications etc.

## Engineering and DevOps:

I have worked with some teams that they did not have a DevOps engineer in the startup stage, I helped them to setup a basic pipeline from development to production, and coached the team to contribute codes effectively.

- Solid Git command and Github CLI skills, know well about the popular flows. Familiarity with commitlint etc, to standardize the commit log messages(follows Google Angular regulations).
- Github Flow(fork, branch for new feature/task/bugfix, PR, and peer code review, CI for testing, merge into master to trigger a automatic deployment pipeline or perform manual deployment )
- Popular CI/CD service: Github Actions, Circle, Travis, Drone, Semaphore, Codefresh, Shippable, AppVeyor, etc. Example configuration project: <https://github.com/hantsy/spring-reactive-jwt-sample>
- Continuous everything in projects, running testing codes on PR/master, and generating code coverage report, and code quality report, building and publishing docker image to DockerHub, etc. Familiarity with Codecov, Coday, Code climate, SonarCloud, etc.
- Docker(Docker file for building new image or multi-stage build), Docker Compose(prepare dependent services for development environment) and basic knowledge of Docker Swarm/ K8S(for deployment from docker images).

**Personal Website:** <https://hantsy.github.io>

**Blog:** <https://hantsy.medium.com/>

**GitHub:** <https://github.com/hantsy>

## Honors and Awards

### **2012 JBoss Community Recognition Awards**

JBoss division by Redhat

June 2012, Boston



## Work Experience

2009- Self-employed freelancer

2001-2009 Several companies in China

## Projects

### **Next Generation of Payment Platform/U.S./Principle Developer**

This platform aims to provide a set of universal RESTful APIs of payment processing.

1. An advanced abstraction layer to implement a super collection of RFC3867
2. Pluginable architecture for the third-party payment instrument providers
3. Universal RESTful APIs(achieved Richardson Mature Level 3) for the end developers
4. Dashboard UI for end users and merchants

My responsibility in this project is providing technology support, not limited to writing small MVP applications to demonstrate required technologies according to the business requirements, eg. building the process of the initial reconciliation prototype etc. And also handle over some engineering work, such as assisting team members to resolve the technical problems and clear the technology barriers in the development stage, doing code review on

Github pull request from others, maintaining the CI/CD pipeline etc.

Technology stack: Java 8(Stream, Lambda, Function), Spring stack(Boot, Cloud, Data, Integration, Batch, AMQP , HATEOAS, Security etc), PostgreSQL, CircleCI/Docker/AWS, etc

### **Bifincan.com E-Commerce website/Turkey/Technical Consultant**

June 2011 to Aug 2013

An e-commerce website, including shopping cart, intelligent survey and recommendation engine etc.

I worked as technical consultant for this project, and was responsible of high level architecture design, infrastructure setup, security design and implementation, performance tuning, problem resolving, and I also provided code guide for other team members, code review, and candidate interview etc.

Technology stack: JSF2, Prettyfaces, Primefaces(only for backend admin app), Spring 3.1, Spring Security 3, JPA (Hibernate4 , Spring Data JPA), MySQL

### **Oceanstar/Greece/Core Developer and Lead Developer**

Sept 2010 to June 2012

Oceanstar is an integrated administration and management system for a vessel managing company.

In the first version, I was a team member of this project, and responsible for development of some modules. It used Java EE5/Seam 2.2 as framework and adopted JBoss full stack technologies, including JBoss AS 4.2, Java EE5/Seam2.2, EJB 3, JSF 1.2/Richfaces 3.3, MySQL.

In the second version, the application was refactoried and migrated to Java EE 6. I worked as Lead Developer and completed the most work of migration to Java EE 6 platform, and I am also responsible of implementing new features, such as Requisition and Quotation, Purchase Order, Logistics and Forwarding etc.

Technology stack: JBoss AS 7, Java EE 6/Seam 3.1, JSF 2, Richfaces 4, EJB 3.1, CDI, JMS, MySQL.

*Note: Here I only listed some large freelancing projects done in these years.*

## Feedback On Projects

★★★★★ 5.00

*There aren't many people on Upwork who are as good as Hantsy. Dedicated, knowledgeable and communicative. Overall great experience working together. I hope to work with Hantsy again soon.*

★★★★★ Hantsy is the real deal. A true JEE Spring/Hibernate expert. Thank you Hantsy for tweaking our project setup and making it better!

★★★★★ Hantsy is one of the most knowledgeable enterprise Java experts I have ever had a chance to work with. Whatever the problem is, he is sure to find a best-fit solution to engineer over it, and is pretty quick with that, too. I wish I had known him much earlier.

The complete LinkedIn profile: <http://www.linkedin.com/in/hantsy>