

# Eric Halvorsen

Experienced **software developer & hands-on software architect** with 14+ years of progressive IT and software engineering experience. Strong focus on Java development, enterprise architecture and application performance.

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## WORK EXPERIENCE

### **IT Architect, Guest Facing Systems**

**ULTA BEAUTY** | BOLINGBROOK, IL | APR 2018 - PRESENT

Solution architect for all Guest Facing Systems (Ecommerce, Mobility, Marketing, Salon & Store Systems)

- Developing multi-year technology strategy, incorporating the adoption of microservices and cloud-native technologies
- Providing architectural oversight to the design and development of new microservice-based Salon Services platform using NodeJS
- Acting as technology liaison between Digital Innovation team and the core IT Guest Facing Systems group
- Providing guidance on design and development best practices across all mission-critical Guest Facing systems

### **IT Architect, Ecommerce**

**ULTA BEAUTY** | BOLINGBROOK, IL | FEB 2014 - APR 2018

Solution architect for Ecommerce systems

- Provided architecture and design oversight via Design Review Board for all new functionality built on top of existing Java-based Oracle Commerce framework (ATG, Endeca Search, Endeca Experience Manager)
- Led “headless” architecture implementation by exposing ATG functionality as REST services to ReactJS-based front end
- Provided solution design for several major enterprise integration initiatives, including Product Information Management (Riversand), Order Management (IBM Sterling), and Customer Master Data management (Informatica)
- Designed changes to payment gateway and fraud management integrations to support ApplePay, manual fraud review capabilities, and credit card tokenization via CyberSource and FirstData TransArmor
- Designed a Spring Boot application to expose Endeca Assembler capabilities as a Spring MVC REST service, decoupled from our core Oracle Commerce platform (as part of our microservice migration strategy)
- Designed and developed a HornetQ-based message-driven, multi-threaded, horizontally scalable replacement for the ATG Fulfillment module to scale our order management system

## SKILLS

Object-Oriented Java Design & Development (Java SE/EE, Spring, ATG), Performance Engineering, Continuous Integration & Delivery, REST Services, Enterprise Architecture & Integration, Microservices, Event-Driven Architectures

## EDUCATION

### **Carroll College**

*Waukesha, WI*

BSc, Computer Science  
Minor, Business Administration

### **College of DuPage**

*Glen Ellyn, IL*

AAS, Computer Information Systems

## ORGANIZATIONS

**PipelinePros**, Oracle Commerce User Group, *Contributor and Speaker* 2016 - Current

**Oracle Customer Advisory Board**, Commerce, *Contributor* 2016 - 2017

**Java User Group**, Virtual/Chicago/Illinois, *Participant* 2013 - Current

- integration, laying the foundation for additional event-driven architectural implementations
- Provided iterative performance improvement suggestions on the core web application to support 60%+ year over year growth of the digital channel, becoming proficient in Dynatrace AppMon in the process
- Spearheaded the migration from Subversion SVN to Git using Atlassian BitBucket for pull request reviews, as well as the adoption of automated unit testing using JUnit/Mockito/Guice/ATG DUST
- Created numerous proof-of-concepts, relying on open-source Java/JavaScript technologies based on microservice principles:
  - Product Catalog and Unique Coupon services using Spring Boot, Spring Data and MongoDB
  - Inventory service using Spring Boot, Redisson, and Redis
  - API Caching Reverse Proxy using NodeJS

### ***Developer, Ecommerce***

**ULTA BEAUTY** | BOLINGBROOK, IL | MAR 2013 - FEB 2014

Full-stack developer responsible for design, development, and support of e-commerce applications leveraging Java and the Oracle Commerce (ATG) platform.

- Re-developed multiple sections of Ulta.com, including the Product Detail Page, as part of a major redesign effort using Bootstrap, JQuery, AJAX, JSP, and the Oracle ATG Commerce suite
- Implemented code review process based on Atlassian Crucible
- Implemented static code analysis using SonarQube (FindBugs, PMD, Checkstyles, and custom ATG ruleset)
- Intimately involved in the creation and execution of new long-term Continuous Integration and Continuous Delivery strategy

### ***Senior Programmer/Analyst***

**KOHL'S** | MENOMONEE FALLS, WI | MAY 2008 - MAR 2013

Starting as an intern, progressed into a Senior Java Developer role developing internal merchandising systems

- Partnered with solution architects on the development of a greenfield inventory and analytical service using Spring and Spring Data JPA
- Designed and developed custom Merchandise Allocation and Replenishment systems using Java Swing, J2EE EJBs and MDBs
- Designed and developed custom order optimization web application using Java, JSF, Servlets, and J2EE EJB/MDBs
- Led the implementation and performance testing efforts of multiple WebLogic 8 applications from HotSpot JVM to Weblogic 11g running JRockit 6
- Provided offshore coordination for a large, distributed team
- Mentored interns and new college hires

## ***Technical Co-Op***

ARGONNE NATIONAL LABORATORY | LEMONT, IL | JUN 2004 - MAY 2008

Technical assistant to the training computer lab administrator

- Assisted in the development of new computer-based training using Flash and ActionScript
- Administered computer-based training to government contractors, providing technical assistance
- Provided basic IT support for the computer lab

## **VOLUNTEER WORK**

### ***Website Administrator***

PKU ORGANIZATION OF ILLINOIS | PALATINE, IL | JAN 2018 - PRESENT

Voting board member, responsible for website development and maintenance, [www.pkuil.org](http://www.pkuil.org) (built using WordPress)

- Completely redesigned the website to be mobile-friendly
- Optimized URLs and content for SEO
- Integrated with Google Analytics for insight into user behavior to drive better content and fundraising opportunities

## **OTHER CONTRIBUTIONS**

### ***Technical Reviewer***

Goetsch, Kelly. *APIs for Modern Commerce*. O'Reilly Media, 2017.

Provided technical review and feedback for Kelly Goetsch's O'Reilly publication on API-driven commerce applications