

# Michael Van Kleeck

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Technology VP/Director, Software Architect, Lead Developer, and Educator. Engineering leader with 20 years of hands-on design and delivery experience for a wide range of clients, using Java, social, and contemporary web technologies. Teacher and community leader. Coach, mentor, and uniter of delivery teams composed of all skill levels, backgrounds, cultures. Specializes in social/e-learning applications, DevOps, and Agile management. Musician, DJ, music lover and evangelist, host of [www.mvk.net/officehours](http://www.mvk.net/officehours)

## Education

**Stanford University, Bachelor of Arts**, English Language and Literature, 1994

Areas of extensive study: **Computer Science**, Education, Environmental Science, Civil Engineering/ Urban Planning, Band

**Willamette University, Master of Arts in Teaching**, 1995

Master's thesis: **Peer Helping In Middle Schools**. **Certified:** Advanced Math, English, Social Studies, Elementary.

## Software Architecture and Development Experience

### **Solutions Architect/ Digital Team Coach**

**Epsilon Data**, Portland, Oregon/ San Francisco, CA **1/2015-date**

- Led a multi-national team implementing a full DevOps platform, with code pipelines, and reusable code artifacts for efficient project delivery to internal and external clients. Automated code development, delivery, and deployment processes using Git, Maven, Gradle, Jenkins, Chef, and various scripting technologies
- Fostered a collaborative environment among architects, developers, and systems engineers. Convened weekly training and support meetings, and provided formal and informal training on technologies and processes.
- Delivered content management, interactive video, and flexible authoring environments on the Adobe Experience Manager platform for Fortune 500 clients in healthcare and marketing services.
- Implemented Salesforce integration and custom support ticketing systems using the Jive platform for technology clients. Led development teams and business analysis efforts across multiple Jive-based projects.
- Coached developers, architects, and managers on best practices for collaborative development. Led efforts to partner with teams in India to provide around-the-clock development services
- Sold project and service engagements directly to Fortune 500 clients.

### **Software Lead- Learning/ E-commerce Platforms**

**OnCourse Learning**, Portland, Oregon **2012-2015**

- Architected and led development for a Java-based learning platform servicing 4 million learning transactions per day. Duties included team management, Agile planning/ delivery, software architecture for Java platforms, DevOps work for both hosted and cloud deployments, strategic planning, and feature development/ maintenance.
- Integrated DevOps to enable rapid development, deployment, and upgrades for application architecture stack. Stack consists of JBoss and Tomcat, MySQL, Apache, Linux, Kentico CMS, and assorted Windows servers.
- Implemented social features to facilitate classroom communication in the course delivery interface using a variety of Javascript frameworks, including jQuery, Dojo, jQuery Mobile, and Direct Web Remoting.
- Designed and implemented a REST API and supporting infrastructure to provide learning and commerce services to other enterprise applications and custom user interfaces. Developed a Salesforce client for enrollment services using the APEX environment.
- Optimized platform performance by implementing code and database updates that increased throughput by 10x while reducing average transaction response time by over 90%.
- Explored and prototyped non-SQL data solutions for several learning domain problems, including MongoDB for document/content management and Riak for interaction tracking.
- Facilitated an Agile process using three-week sprints and leveraging JIRA for issue management and tracking.

## **Software Architecture and Development Experience (cont.)**

**Chief Software Architect- Social, Web, and Java Technologies**      **Semprian Inc.**, Portland, Oregon      **2000-present**

- Clients include Cambia/Regence, Yesmail, Intel, City of Portland, Symantec, PacificCorp, Chrome, Summit/FiServ.

### **Social Application Architecture and Development**

- Designed a Java/Hibernate data model and a suite of REST-based API's to facilitate rapid development of the Cambia PatSat application, running on the Jive platform, in collaboration with HTML/ JavaScript UI designers.
- Prototyped a social workflow engine for Yesmail's email marketing platform, using the OpenSocial API, REST API's in Java, OAuth security, and the Yammer social business platform.
- Worked with the Yesmail team to implement Facebook integrations using Facebook Platform API's.

### **API, Cloud, and Web 2.0/ Mobile Application Architecture and Development**

- Architected and developed REST-based API's for vehicle data served by Hagerty Cars That Matter, using Python and Django. Created user interfaces to serve web, mobile, and iOS clients, using jQuery and Objective-C.
- Developed a subscription API for Hagerty's cloud platform to support in-app purchases for an iPhone application.
- Engineered a complete Django-based commerce platform to sell, renew, and manage Hagerty user subscriptions.
- Implemented service API's for Chrome Data using Apache Axis. Improved average response time by 90% for a service-driven fuzzy logic application, written in Java. Refactored language processing logic, tested and reworked SOAP API's, and worked on a custom BigTable-like NoSQL database to improve service capacity and throughput.

### **Java Performance, Optimization, and Refactoring**

- Refactored the City of Portland's transportation budgeting application to improve responsiveness and to integrate with the city's ERP and Maximo systems using J2EE API's. Tuning work included improving the Swing-based UI, incorporating a multi-threaded processing engine, and optimizing the application deployment platform (Tomcat).
- Implemented an optimized transaction processing system and incorporated multi-threading and Java thread pooling to increase throughput for Symantec's online fulfillment system, running in ATG on Weblogic Enterprise server.
- Read and audited all code for Apache Harmony's JVM at Intel. Evaluated code for intellectual property concerns.
- Optimized processing time and results per variable for Pacificcorp's Tomcat-based 30-year hourly forecasting system, using linear programming algorithms and a custom mathematics API written in Java.

### **Enterprise Java Architecture, Development, and Methodology**

- Constructed an XML-driven, multi-channel web service for Summit/FiServ, using the Apache Axis platform. Developed a custom rules engine, scriptable in English, to enable custom content delivery to customers via web, telephone, and e-mail. Implemented artificial intelligence algorithms to optimize application of business rules.
- Mentored architects and senior developers at Oregon DMV on application design and development for the IBM WebSphere platform. Addressed business process issues as well as technical concerns related to WebSphere Server and enterprise software development tools for a high-throughput application built on a DB2 database.

**Technical Instructor- Social Software Development and Community Management**      **Jive Software**, Portland, Oregon      **2011**

- Trained Jive's enterprise clients how to "work out loud" using the Jive 5 platform. Instructed developers, community managers, and Jive Champions on how to implement social business processes using Jive.
- Taught Jive customers and partners how to develop Java-based extensions for the Jive platform, using Spring and Struts frameworks and REST web services built on CXF. Designed custom curriculum to help Jive clients integrate social technologies with existing enterprise and social media applications, both on-premises and in the cloud.
- Collaborated with Jive's Strategic Consulting and Professional Services teams to develop customer success plans, focused on measuring and improving Jive adoption, workplace collaboration, and social media usage.
- Partnered with Jive's Product and Engineering teams to develop a shared model of Jive's cloud-based software architecture, covering integration points with enterprise applications and external cloud services.

## Management and Technology Leadership Experience

- Enterprise Solutions Architect** **Con-way**, Portland, Oregon **2007-2008**
- Mentored developers, designed software infrastructure, and led adoption of Agile development methodologies.
  - Applied the TOGAF Enterprise Architecture framework to synchronize business processes with technology assets.
  - Coordinated adoption, education, and implementation planning for an enterprise Learning Management System.
- Director of Technology** **Learning.com**, Portland, Oregon **2001**
- Collaborated with business and sales leadership to craft educational software solutions for schools across the United States and China. Integrated content delivery with student assessment and performance analysis tools.
  - Designed, developed, and deployed web-based multimedia product delivery and student tracking system, built using Apple WebObjects server, backed by an Oracle 8i database server.
  - Stabilized and enhanced pre-existing product delivery system using the Vignette StoryServer platform.
- Senior Technical Architect/ Java Affinity Group Leader** **Emerald Solutions**, Portland, OR **1999-2000**
- Headed development efforts for several enterprise e-commerce systems based on Java 2 Enterprise Edition architectures, utilizing WebSphere, WebMethods, ATG Dynamo, and other products.
  - Mentored all Java developers on object-oriented design and development, rapid application development strategies, and utilizing collaborative software development processes to improve client satisfaction with delivered software.
  - Crafted enterprise application integration systems and implementation strategies based on WebMethods for multiple clients. Developed a suite of customized services for Java/ J2EE-based Enterprise Application Integration.
- Head Technologist/ Assistant to CTO** **Snap-on Incorporated**, Portland, OR-San Jose, CA **1997-99**
- Invented and managed development of in-vehicle diagnostics application, utilizing a vehicle-based Java application server and a variety of Windows, Java, and HTML clients. Worked with CEO and Board of Directors to develop market strategy and research plan for industry-leading technology.
  - Coordinated Internet application development efforts and defined standards and architecture for web-based business among multiple internal groups and over 20 subsidiaries in the United States and Europe.
- Web Architect/ Internet Solutions Designer** **Hall Kinion**, Cupertino, CA **1996-97**
- Managed all aspects of company's Internet/Intranet strategy, including technology, budget, planning, and hiring.

## Education and Community Engagement Experience

- Mathematics Education Workgroup** **Oregon Quality Education Commission** Salem, OR **2009-2012**
- Collaborated with Oregon educational leaders to assess the quality of elementary and secondary education.
  - Led several on-site evaluations of mathematics teaching and assessment processes.
  - Produced policy guidelines with a team of educators that were used to guide legislative and reform efforts.
- Chair- Strategies Committee** **Washington County Commission- Children and Families** Hillsboro, OR **2002-2006**
- United political leaders, private organizations, and government agencies to develop strategies for improving education, health care, safety, and overall well-being of children and families in Washington County.
  - Led the planning and implementation efforts to open the Washington County volunteer center.
  - Served as the vice-chair for the Oregon State Coalition of Commissions on Children and Families.
  - Lobbied state legislative representatives to increase awareness and gain support for child and family issues
- Adjunct Professor- Computer Science** **Linfield College**, Portland- McMinnville, OR **1999-2001**
- Provided instruction in Java technologies to Information Systems majors in a classroom environment. Delivery included one-on-one tutoring, classroom discussion/ lecture, and team-based development.
  - Served as assistant editor for textbook- "Java, How To Program" 4<sup>th</sup> edition, published by Prentice-Hall.
- Language Arts Teacher/ Department Head** **Condon High School**, Condon, OR **1995-96**
- Taught high school language arts to all students in grades 9 through 12, with emphasis on preparing students to create a portfolio of work for reflection, personal growth, and college and career preparation.
  - Developed authentic assessments that incorporated evaluation and self-reflection into all aspects of curriculum.