



Michael Schmidt

Senior Software Engineer

Work Experience

- 2013–Present **Senior Software Engineer**, *SAP SE*, Berlin.
Team lead, architect and lead developer for internal projects based on Kubernetes. Lead a team that builds and operates a Kubernetes based foundation for SAP's inhouse cloud. Responsible for product management, development and operations of a managed Kubernetes platform. Managed multiple projects based on Scrum/Kanban.
- Championed container technologies. Introduced Kubernetes as basis for SAP's inhouse Cloud. Transitioned a large dev-ops team to cloud-native technologies.
 - Built a managed service for provisioning of Kubernetes clusters
 - Managed large fleets (300+) of Kubernetes clusters
 - Coached and nurtured a Helm based distribution of OpenStack
- 2006–2013 **Expert Consultant**, *SAP AG*, Berlin.
Architected, implemented and lead internal projects based on Ruby, Rails, Chef, Sinatra, Java, GWT, Alfresco. Coordinated team assignments, interviewed and hired new team members.
- Championed the devops idea and introduced Opscode Chef as configuration management software into the organisation.
 - Coached and nurtured a continuous delivery workflow, with automated testing and deployment, as well as test-driven development.
 - Introduction of Ruby and Ruby on Rails. Transitioned the team from Java to Ruby.
- 2003–2006 **Consultant**, *SAP SI AG*, Dresden.
Consultant for custom development on SAP Enterprise Portal.
- On-site customization for various customers.
 - Coaching and training for SAP WebDynpo, SAP Enterprise Portal, SAP Knowledge Management, SAP NWDI.
- 2003 **Freelancer**, *SAP Deutschland AG*, Berlin.
Worked on a internet platform for a large utilities provider.
Implemented a modern frontend in Java, JSP, HTML and CSS.
- 2002–2003 **Working Student**, *eSAP*, Berlin.
Master thesis about Modelling Attack-Vectors in modern Web-Applications.
Validated approach by applying findings for the SAP Enterprise Portal.

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- 1999–2002 **Research Assistant**, *Distributed Artificial Intelligence Laboratory*, Berlin.
Worked for Professor Sahin Albayrak on a service-oriented distributed agent platform. Wrote a complex graphical user interface in Java for managing ontologies used in inter-agent communication.
- 1992–2003 **Freelancer**, *crashedpixels.de*, Crailsheim.
Created a full featured inventory management application for a local goldsmith business. Used Delphi and SQL to write custom reports, bills and labels. Supported and migrated the application from Windows 3.11 to Windows XP.
- 1992–2003 **Webmaster**, *crashedpixels.de*, Crailsheim.
Build and maintained various dynamic websites for local businesses. Customer specific modifications in Perl using the MovableType CMS. Various dynamic implementations using PHP on a LAMP stack.
- 1992–1996 **Customer Service**, *HEM Expert*, Satteldorf.
Configured and assembled large numbers of PCs and servers as specified by OEM customers. Worked in customer support on troubleshooting and fixing end-user hardware and software problems.

Projects

- 2017–Present **Kubernikus - Kubernetes as a Service**, *SAP*.
Lead architect and developer for a Kubernetes as a Service platform, natively integrated for OpenStack. Managed the productive operations of the system as a managed service. Used Technologies: Kubernetes, OpenStack, Golang, client-go, CoreOS, Docker
- 2013–Present **Converged Cloud - OpenStack Privat Cloud**, *SAP*.
Team lead, architect and developer for an private OpenStack cloud. Responsible for designing, provisioning and operating a fleet of bare-metal Kubernetes clusters. Setup world-wide distribution in 16+ productive regions. Used Technologies: Kubernetes, CoreOS, Docker, BGP, Golang, Prometheus
- 2012–2013 **Inhouse Cloud Platform**, *SAP*.
Architect and developer for a inhouse cloud and automation platform. Continuous delivery with an automated deployment pipeline based on Bamboo. Ruby on Rails, Vagrant, Chef, Red Hat Enterprise Linux
- 2012–2013 **Expert-Finding Social Network**, *SAP*.
Lead architect and developer for a social network for finding experts. Integration with various inhouse and external profile management applications. Continuous delivery with an automated deployment pipeline based on Bamboo. Used technologies: Ruby on Rails, Solr, Chef, Red Hat Enterprise Linux
- 2011–2012 **Employee Motivation Campaign**, *SAP*.
Test-Driven development of an application for uploading and customization of images and videos. Integration with internal community platforms. Ruby on Rails, Resque, Imagemagick, Picky, Chef, Red Hat Enterprise Linux.
- 2010–2011 **Ecosystem App-Store**, *SAP*.
Architected, implemented and deployed an app-store for promoting and selling SAP solutions created by partners. Frontend in Sinatra and JRuby running in OSGI and SAP Lean Java Server. Custom content management system in Sinatra and Markdown. Object-Document Mapper in Java for MongoDB and GWT. Multifaceted Search Frontend based on GWT.

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- 2009–2010 **Document Management System, SAP.**
Worked on a company wide introduction of Alfresco as document management system. Implemented various custom workflows for internal customers. Adapted an existing content-management solution to the Alfresco backend. Built various tools and applications based on Alfresco, Java and GWT.
- 2006–2009 **Business Center for SAP ByDesign, SAP.**
Built a internet platform that facilitates the launch and ongoing support for SAP ByDesign. Architected and implemented a custom content management system on SAP Enterprise Portal. Redesigned a rendering engine that is suitable for large traffic scenarios. Coached and trained support and content-editors.
- 2005–2006 **Incident Management System, Deutsche Post.**
Architected and implemented a customer facing incident management system for Deutsche Post AG. Custom solution based on SAP Enterprise Portal, WebDynpro for Java and customization in ABAP. Setup build and deployment infrastructure based on SAP NWDI. Coached and trained customer's internal IT staff.
- 2004–2005 **Management Self-Services for Automotive, Volkswagen.**
Implemented Management-Self Services for an Intranet Platform. Rapid-Development of web interfaces in WebDynpro that integrate with a heavily customized SAP ERP system. Sales support for SAP Enterprise Portal.
- 2003–2004 **Productization of Business Packages, SAP Consulting.**
Created a content management solutions for SAP Enterprise Portal (Web Editing) and webpages (Web Publishing). It provides customers with an easy way to create content in KM an automatically translate into iViews and layouts, a feature which was not available in the standard product at the time. Worked on productizing these extensions for SAP Enterprise Portal. Created documentation in L^AT_EX and Docbook that can be converted to HTML, PDF and SAP Knowledge Warehouse. Developed a web service for converting Microsoft Word documents into HTML.
- 2003 **Internet Platform for Utilities Provider, Gasag.**
Relaunch of the Gasag website (<https://www.gasag.de/>). Custom build CMS based on java and iViews in SAP Knowledge Managemenent and Enterprise Portal. Created a content-management workflow based on Microsoft Word.

Education

- 1999–2003 **Diplom Informatiker, Computer Science, Technische Universität, Berlin.**
Diplom in Computer Science with minor in work psychology. Coursework included computer graphics, artificial intelligence, computer security and statistical evaluation, psychology and interpretation of surveys and questionnaires.
- 1996–1999 **Undergraduate Degree, Computer Science, Insitute of Technology, Karlsruhe.**
Minored in advanced mathematics. Coursework included in-depth mathematics, complexity theory, practical work with different types of programming languages.
- 1988–1996 **Abitur, Albert-Schweitzer Gymnasium, Crailsheim.**

Languages

German Native
English Fluent
French Conversant

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Computer skills

Extremely Proficient With

- Languages Golang, Ruby, Javascript, Coffeescript, Java, Perl, PHP, Delphi, Pascal, HTML5, CSS3, HAML, SASS, JSON
- Frameworks Kubernetes, client-go, Rails, Sinatra, Rack, Chef, Spring, GWT, OSGi, jQuery, Bootstrap, SAP Enterprise Portal
- Databases Etcd, MySQL, PostgreSQL, SQLite, MongoDB, Redis
- Editors VSCode, Vim, Eclipse
- Tools Git, Docker, Concourse, TravisCI, nginx, Passenger, SAP Netweaver, SAP Lean Java Server, Adobe Photoshop, L^AT_EX, Shell
- OS MacOS, CoreOS, Windows, Ubuntu, Debian, Red Hat Enterprise Linux

Have Experience With

- Languages Objective C, C, C++, Prolog, Lua, Erlang, Groovy
- Databases CouchDb, Berkley DB
- Tools Apache Webserver, Berkley DB, Wordpress CMS, MovableType CMS, Flash
- OS Suse, Fedora Linux, Raspbian

Interests

- Sports Crossfit, Beach-Volleyball, Biking
- Games Boardgames, eSports
- Controllers Ardunio, RaspberryPi

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